

# MySQL

# SQL

Structure Query Language

# MySQL

# Why SQL?



存資料

December 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	1 Dec	2
3	4	5	6	7	8	9
10	11	12			15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1 Jan	2	3	4	5	6

關連式

Student

id	name	gender	classroom_id
1	王大中	male	2
2	小明	male	2
3	娟娟	female	1

Classroom

id	grade	room
1	3	1
2	3	2
3	3	3



3年2班

# SQL

Structure Query Language

Student

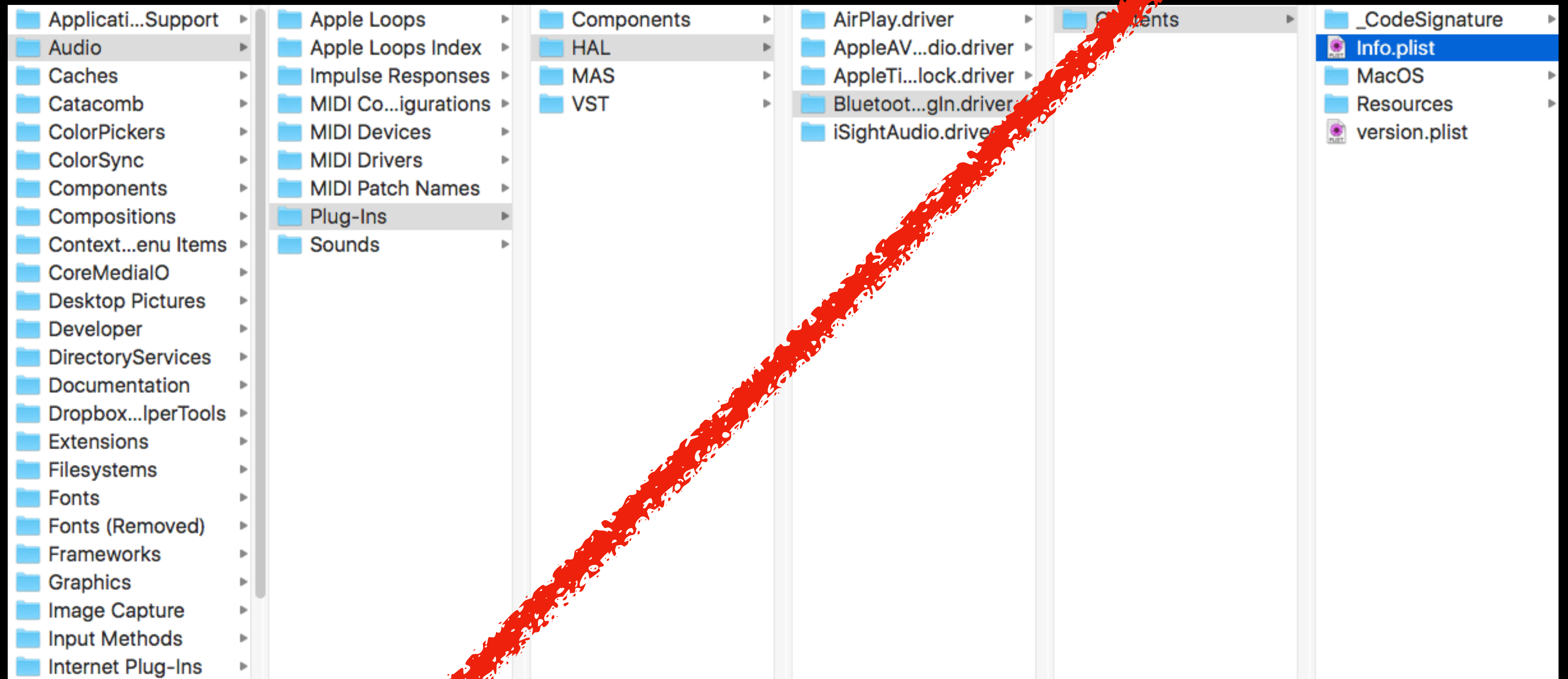
id	name	gender	classroom_id
1	王大中	male	2
2	小明	male	2
3	娟娟	female	1

Classroom

id	grade	room
1	3	1
2	3	2
3	3	3



3年2班



```
1 [
2   {
3     "gender": "male",
4     "name": {
5       "title": "mr",
6       "first": "jack",
7       "last": "novak"
8     },
9     "location": {
10      "street": "9099 3rd st",
11      "city": "bath",
12      "state": "prince edward island",
13      "postcode": 66242
14    },
15    "email": "jack.novak@example.com",
16    "login": {
17      "username": "smallwolf867",
18      "password": "harper",
19      "salt": "heJVI3Bo",
20      "md5": "8b54e2d2ee3a0d2464c0c19d62dce071",
21      "sha1": "e920cad43bf71a28cf39d900ed275f6a61222741",
22      "sha256": "9c673172bec4962ac1f734b7733263e0550cf820aeed8b59e35f935c4c341c58"
23    },
24    "dob": "1954-07-03 03:36:08",
25    "registered": "2011-10-08 04:33:58",
26    "phone": "631-709-9304",
27    "cell": "802-227-8078",
28    "id": {
29      "name": "",
30      "value": null
31    },
32    "picture": {
33      "large": "https://randomuser.me/api/portraits/men/68.jpg",
34      "medium": "https://randomuser.me/api/portraits/med/men/68.jpg",
35      "thumbnail": "https://randomuser.me/api/portraits/thumb/men/68.jpg"
```



# SQL

Structure Query Language

架構

# MySQL Workbench

- [Visual C++ Redistributable for Visual Studio 2015](#)

To learn more about MySQL Workbench:

- [MySQL Workbench Installation Instructions, Documentation and Change History](#)
- [Forums and Blogs](#)

Looking for the legacy MySQL GUI Tools Bundle (Administrator, Query Browser, Migration Toolkit)?

- Read the [EOL Announcement](#) for the MySQL GUI Tools Bundle
- [Download Archives for the \(EOL\) MySQL GUI Tools Bundle](#)

Please report any bugs or inconsistencies you observe to our [Bugs Database](#).

**Thank you for your support!**

#### Generally Available (GA) Releases

### MySQL Workbench 6.3.9

Select Operating System:

Mac OS X

[Looking for previous GA versions?](#)



Packages for Sierra (10.12) are compatible with El Capitan (10.11) and are Yosemite (10.10)

#### Mac OS X (x86, 64-bit), DMG Archive

6.3.9

97.5M

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(mysql-workbench-community-6.3.9-osx-x86\_64.dmg)

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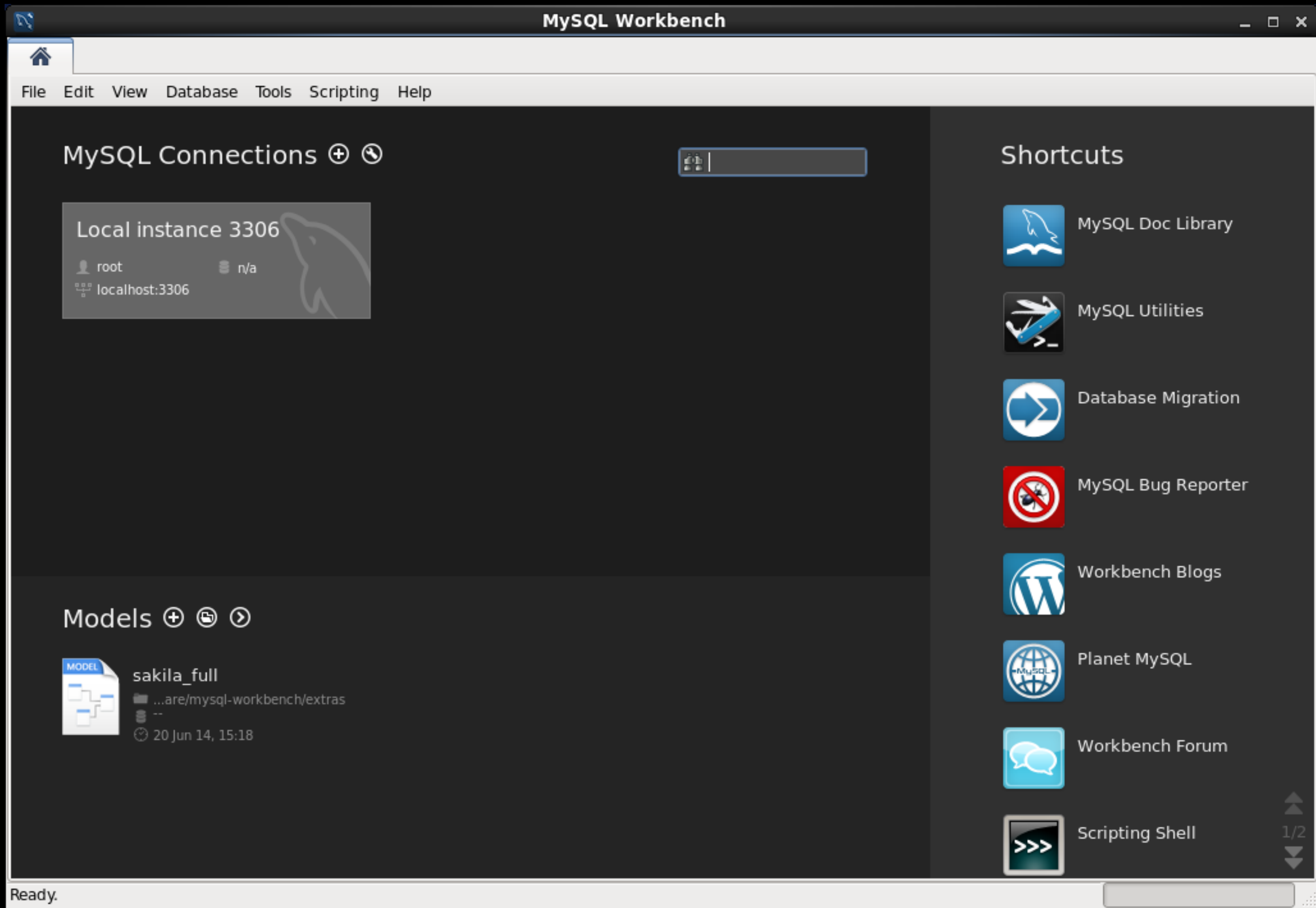
**No thanks, just start my download.**



**Contact MySQL Sales**

USA/Canada: +1-866-221-0634 ([More Countries »](#))





# structure

- database
- table
- row
- column

# structure

calendar



todo\_list



blog





# database

simpleblog



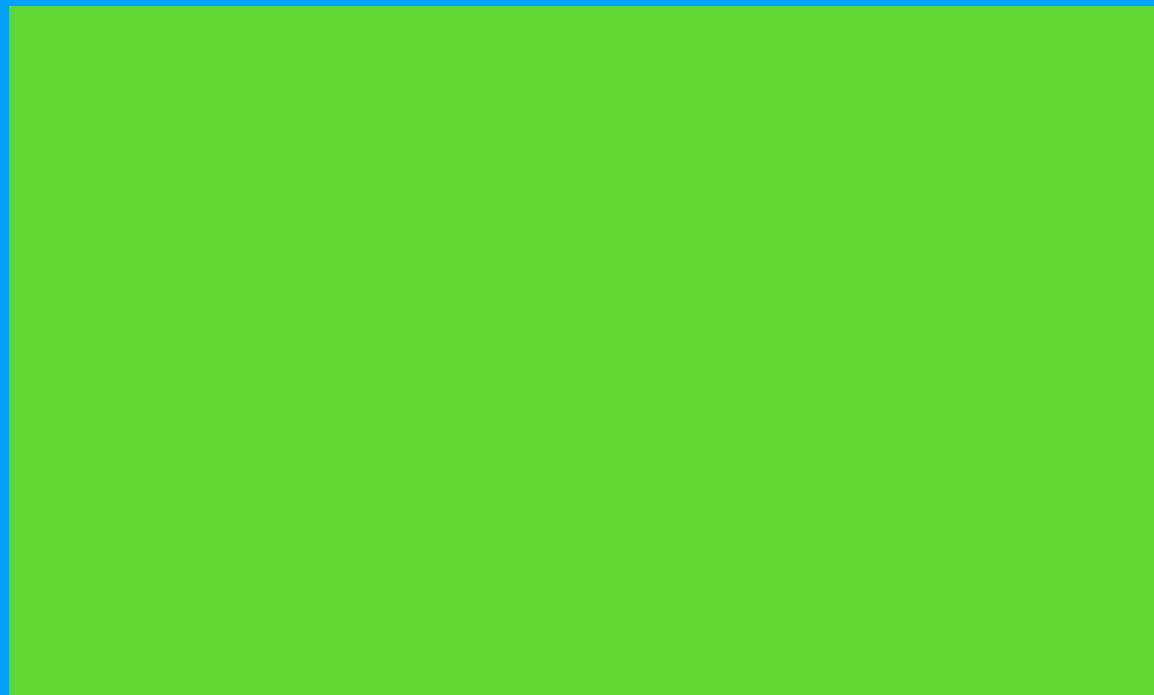
# tables

simple\_blog

authors



posts



# rows

authors

id	name	email	quote
1	John	<a href="mailto:john@gmail.com">john@gmail.com</a>	...
2	Sharon	<a href="mailto:sharon@gmail.com">sharon@gmail.com</a>	...

posts

id	title	content	author_id
1	CSS selector	...	1
2	What's new in CSS3	...	1
3	PHP composer	...	2

# columns

authors

id	name	email	quote
1	John	<a href="mailto:john@gmail.com">john@gmail.com</a>	...
2	Sharon	<a href="mailto:sharon@gmail.com">sharon@gmail.com</a>	...

posts

id	title	content	author_id
1	CSS selector	...	1
2	What's new in CSS3	...	1
3	PHP composer	...	2

# 找資料的時候。可能像這樣

simple\_blog

authors	posts		posts	
	id	title	content	author_id
	1	CSS selector	...	1
	2	What's new in CSS3	...	1
	3	PHP composer	...	2

# 找資料的時候。可能像這樣

**posts**

id	title	content	author_id
1	CSS selector	...	1
2	What's new in CSS3	...	1
3	PHP composer	...	2

# 找資料的時候。可能像這樣

**posts**

id	title	content	author_id
1	CSS selector	...	1
2	What's new in CSS3	...	1
3	PHP composer	...	2

# structure

- database
- table
- row
- column



keys

# primary key

email	password
<u>jacky@gmail.com</u>	password
<u>mary@gmail.com</u>	password
<u>jacky@gmail.com</u>	password

id	username	password
1	takerwu	password
2	johnny	password
3	mary	password

# primary key

email	password	email	address
<u>jacky@gmail.com</u>	password	<u>jacky@gmail.com</u>	...
<u>mary@gmail.com</u>	password	<u>mary@gmail.com</u>	...

# primary key

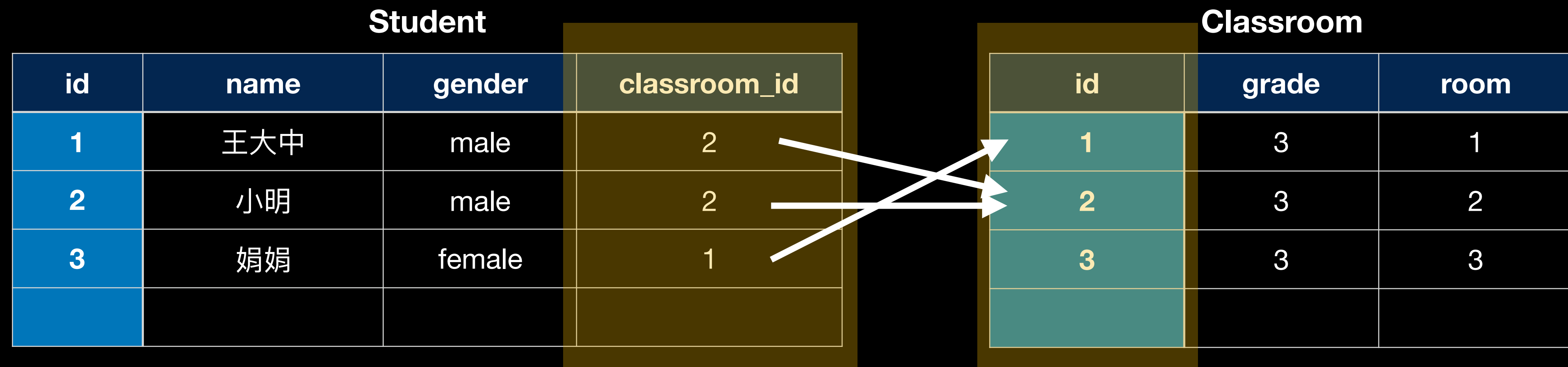
email	password	email	address
<u>jacky.wang@gmail.com</u>	password	<u>jacky@gmail.com</u>	...
<u>mary@gmail.com</u>	password	<u>mary@gmail.com</u>	...

# primary key

email	password
<u>jacky@gmail.com</u>	password
<u>mary@gmail.com</u>	password
<u>jacky@gmail.com</u>	password

id	username	password
1	takerwu	password
2	johnny	password
3	mary	password

# foreign key



# keys

- primary key
- foreign key

**relationship**



# relationship

- 1 - 1
- 1 - Many
- Many - Many

# 1 to 1

user

id	username	password
1	bb	password
2	john	password
3	marywang	password

account\_info

user_id	name	gender
1	王大中	male
2	小明	male
3	娟娟	female



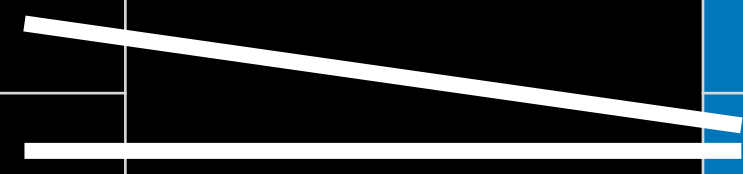
# 1 to Many

**Student**

id	name	gender	classroom_id
1	王大中	male	2
2	小明	male	2
3	娟娟	female	1

**Classroom**

id	grade	room
1	3	1
2	3	2
3	3	3

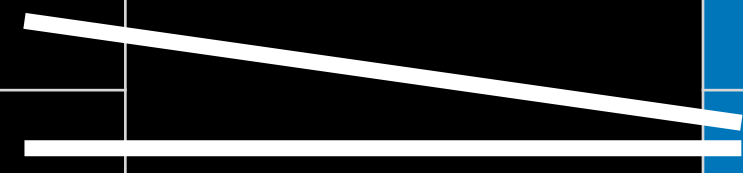


**posts**

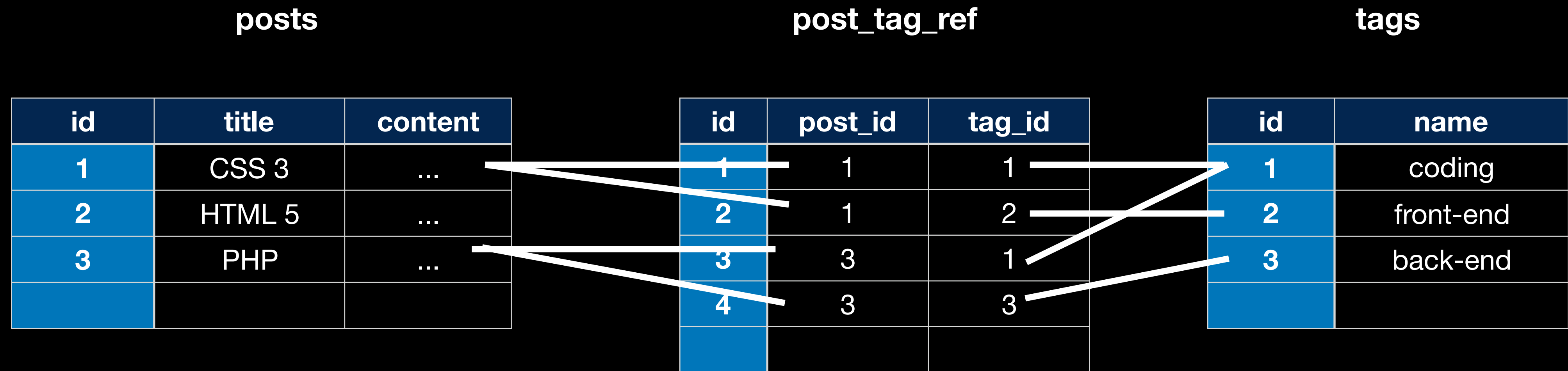
id	title	content	category_id
1	CSS 3	...	2
2	HTML 5	...	2
3	Maserati	...	1

**category**

id	category
1	cars
2	tech
3	mobile



# Many to Many



join

# join

Student

id	name	gender	classroom_id
1	王大中	male	2
2	小明	male	2
3	娟娟	female	1

Classroom

id	grade	room
1	3	1
2	3	2
3	3	3

Student Join Classroom

id	name	gender	Classroom.id	grade	room
1	王大中	male	2	3	2
2	小明	male	2	3	2
3	娟娟	female	1	3	1

database design

# notes

Search

Folders

Edit

ICLOUD	
All iCloud	29 >
Notes	21 >
Archive	3 >
Blake's 7	0 >
FileMaker	1 >
Imported Notes	0 >
BBC The Space	0 >
DR160786 Ai Weiwei 360	4 >
Invoicing	0 >
The Beiderbecke Solution	0 >
Travel	0 >
ON MY IPAD	
Notes	28 >
New Folder	

08:48

Notes

Edit

The ridiculous, stupid thing is that every... 08:24 really I am so fast. So much faster tha...
Upgrade your Notes app 08:06 1 web link
Blake's 7 novel 07:53 <a href="https://www.icloud.com/notes/0RR9C...">https://www.icloud.com/notes/0RR9C...</a>
Links for Spark Young Writers Issue 11 p... Yesterday The Truth is a Lie
PAGE ELEMENTS FOR SPARK YOUNG... Yesterday BEGINNING
Spark Magazine running order Yesterday The Truth is a Lie
PAGE TEXT FOR SPARK WRITERS Yesterday <h2> <span style="color: #0000...
Spark Young Writers' magazine issue 11... Yesterday Notes on production and editing
003 Ulysses 2.7.rtf 09/12/2016 1 attachment
Writing West Midlands online course ide... 23/09/2016 1 attachment
Pointers 3.oplx.zip 06/03/2016 1 attachment
How many years has this App of the We... 30/10/2015 Notes. I wrote about it this week...
It's not exactly minimalist 27/10/2015 But this Notes version is so far r...
New Note 27/10/2015 No additional text
21 Notes

Spark Magazine running order

The Truth is a Lie

Dear Agony Aunt

Ivy's Journey

A Day in the Life of Mossy the Dog

Faces in a Crowd

Homeless

Beach Scene

Salted Water

They Do Not See Me

Agent R

How the Artist Lost Her Colour

Missing

My Life

Owl

Reflections

The Rapids of the Fresh New World

Incognito Popcorn Twins in The Case of the Magic Sausage

The Long Struggle of Writing

Waiting

✓

✍

📷



# notes

The screenshot displays the MySQL Workbench interface with the 'notes.mwb' file open. The main workspace shows the 'Physical Schemas' for the 'my\_notes' MySQL Schema. It includes sections for Tables (2 items), Views (0 items), Routines (0 items), and Routine Groups (0 items). The 'Tables' section lists 'categories' and 'notes'. The 'Views' section has an 'Add View' button. The 'Routines' section has an 'Add Routine' button. The 'Routine Groups' section has an 'Add Group' button. The 'Schema Privileges', 'SQL Scripts', and 'Model Notes' sections are also visible.

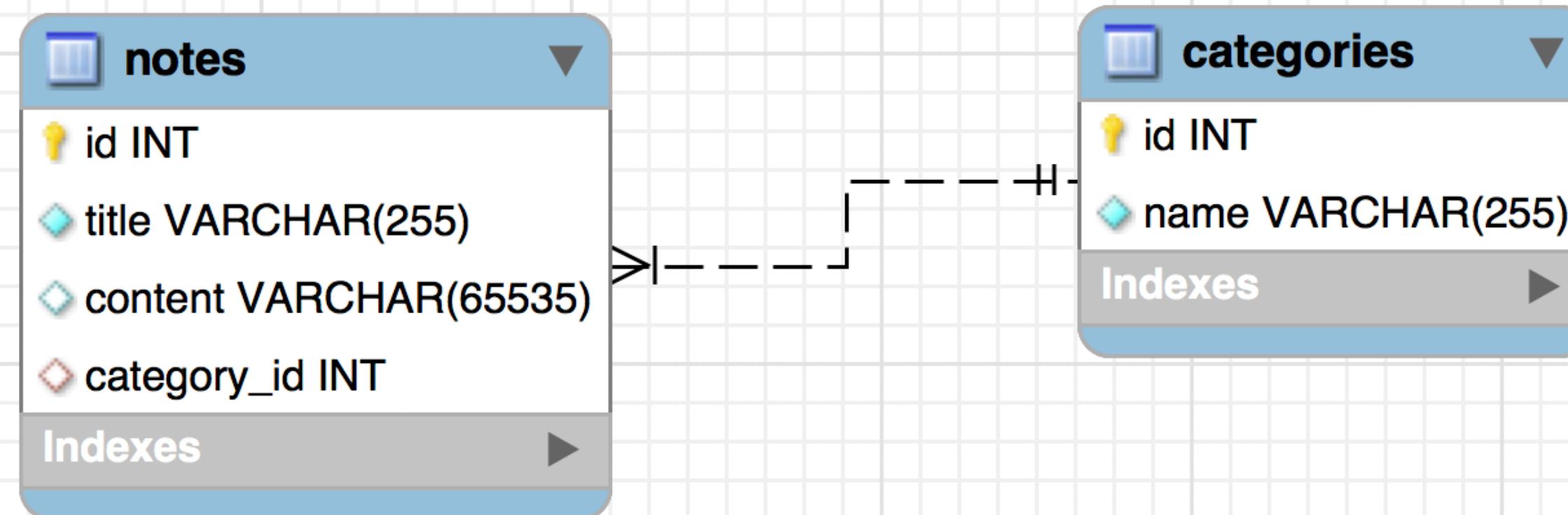
On the right side, the 'Templates' panel shows three templates: 'timestamps' (create\_time, update\_time), 'user' (username, email, password, crea...), and 'category' (category\_id, name).

At the bottom, the 'my\_notes - Schema' tab is active, showing the 'Schema Name' field with the value 'my\_notes'. The 'Default Collation' is set to 'utf8 - utf8\_general\_ci'. The 'Comments' field is empty. The 'Schema' button is visible at the bottom left of the tab.

The left sidebar shows the 'Description' tab with 'No Selection' and a list of data types and their definitions:

Type	Definition	Flags
BOOL	TINYINT(1)	
BOOLEAN	TINYINT(1)	
FIXED	DECIMAL(1...	
FLOAT4	FLOAT	
FLOAT8	DOUBLE	
INT1	TINYINT(4)	
INT2	SMALLINT(6)	
INT3	MEDIUMINT(9)	
INT4	INT(11)	
INT8	BIGINT(20)	
INTEGER	INT(11)	
LONG VARBI...	MEDIUMBLOB	
LONG VARC...	MEDIUMTEXT	
LONG	MEDIUMTEXT	
MIDDLEINT	MEDIUMINT(9)	
NUMERIC	DECIMAL(1...	
DEC	DECIMAL(1...	
CHARACTER	CHAR(1)	

# notes



# blog

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It's Drift's and it's brilliant. Here's why.



Andy Raskin  
Oct 24 · 9 min read



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If you haven't heard, universities around the world offering their courses online for free (or at-least partially free). These courses are...



Dhawal Shah  
Oct 24 · 24 min read



### Getting Into Software Development

Earlier this month, I received a message on LinkedIn:



James Wright  
Oct 21 · 11 min read



### The incuriousness of Donald Trump

Why it matters that the president of the United States has no interest in learning anything about the world around him.



Adam M. Lowenstein  
Oct 22 · 7 min read





# blog

blog.mwb - MySQL Workbench

MySQL Model x EER Diagram x EER Diagram1 x

Search

Description

No Selection

EER Diagrams

Physical Schemas

blog\_demo  
MySQL Schema

Tables (5 items)

Add Table

categories posts post\_tag\_refs tags users

Views (0 items)

Add View

Routines (0 items)

Add Routine

Routine Groups (0 items)

Add Group

Schema Privileges

SQL Scripts

Model Notes

blog\_demo - Schema

Schema Name:  The name of the schema. It is recommended to use only alpha-numeric characters. Spaces should be avoided and be replaced by \_

Rename References Refactor model, changing all references found in views, triggers, stored procedures and functions from the old schema name to the new one.

Default Collation:  Specifies which charset/collation the schema's tables will use if they do not have an explicit setting. Common choices are Latin1 or UTF8.

Comments:

Schema

User Types History

Type	Definition	Flags
BOOL	TINYINT(1)	
BOOLEAN	TINYINT(1)	
FIXED	DECIMAL(1...	
FLOAT4	FLOAT	
FLOAT8	DOUBLE	
INT1	TINYINT(4)	
INT2	SMALLINT(6)	
INT3	MEDIUMINT(9)	
INT4	INT(11)	
INT8	BIGINT(20)	
INTEGER	INT(11)	
LONG VARBI...	MEDIUMBLOB	
LONG VARC...	MEDIUMTEXT	
LONG	MEDIUMTEXT	
MIDDLEINT	MEDIUMINT(9)	
NUMERIC	DECIMAL(1...	
DEC	DECIMAL(1...	
CHARACTER	CHAR(1)	

Templates

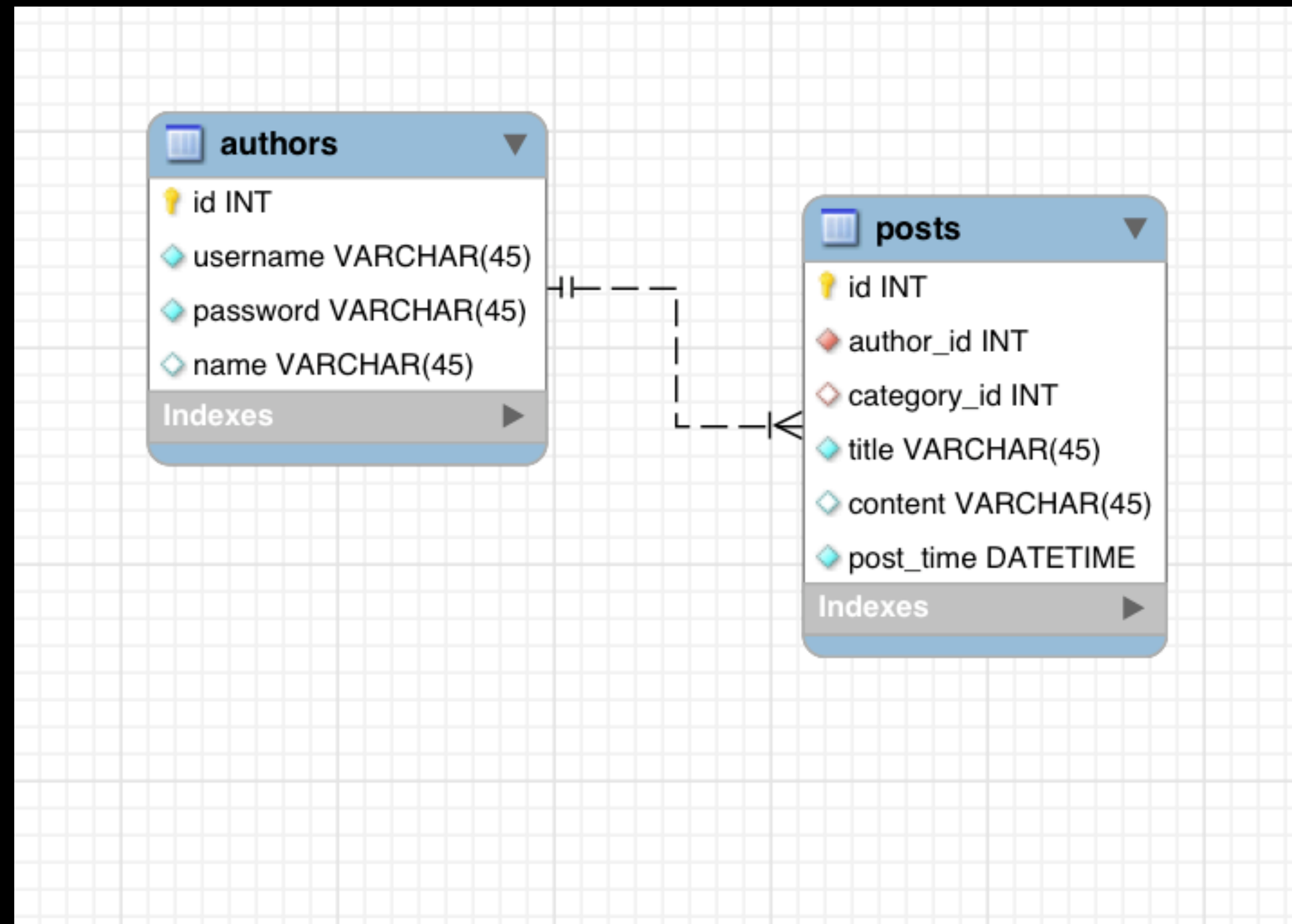
timestamps  
create\_time, update\_time

user  
username, email, password, crea...

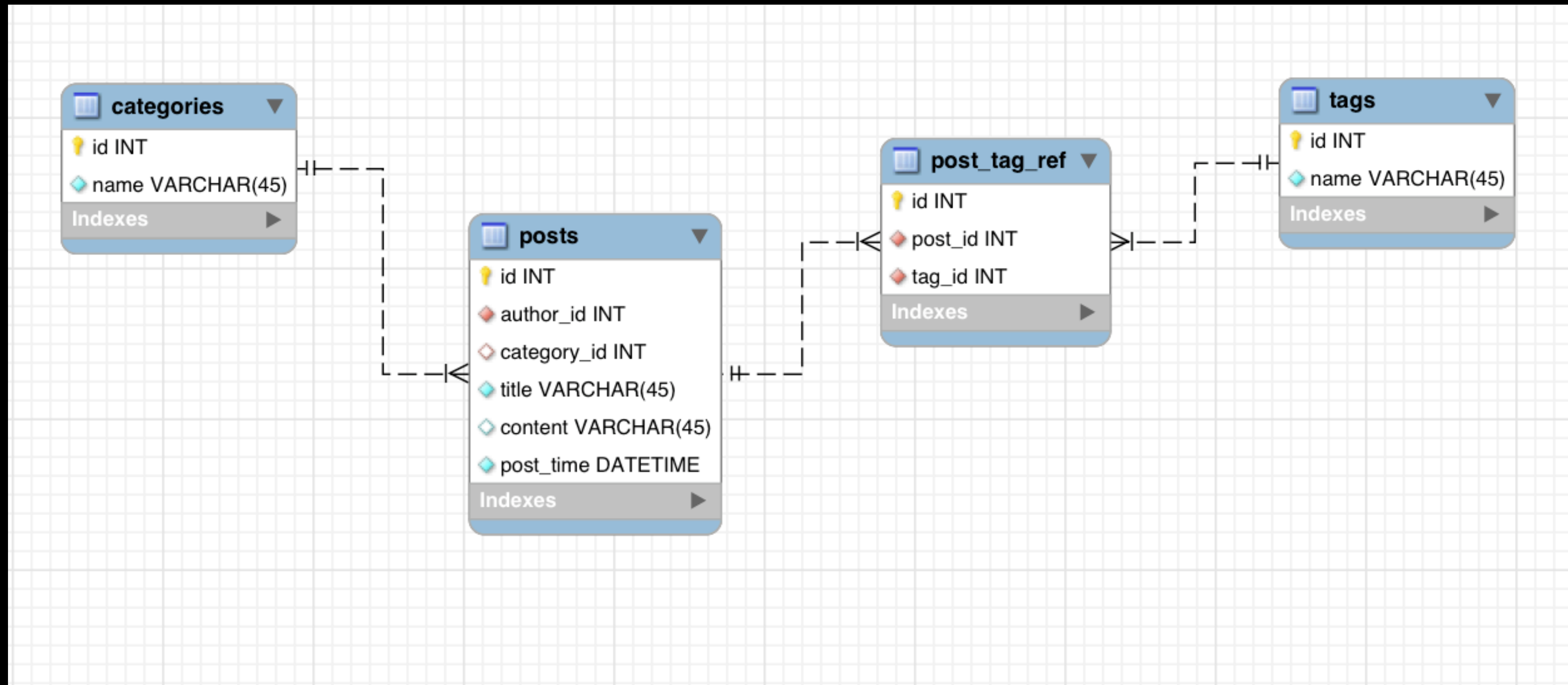
category  
category\_id, name

Document loaded

# blog



# blog



# blog

posts

id	title	content
1	CSS 3	...
2	HTML 5	...
3	PHP	...

post\_tag\_ref

id	post_id	tag_id
1	1	1
2	1	2
3	3	1
4	3	3

tags

id	name
1	tech
2	front-end
3	back-end



# blog

posts

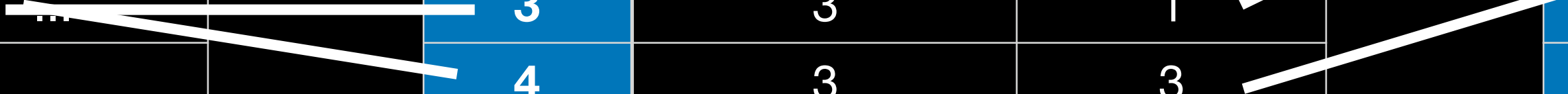
id	title	content
1	CSS 3	...
2	HTML 5	...
3	PHP	...

post\_tag\_ref

id	post_id	tag_id
1	1	1
2	1	2
3	3	1
4	3	3

tags

id	name
1	tech
2	front-end
3	back-end





# blog

posts

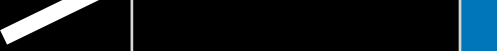
id	title	content
1	CSS 3	...
2	HTML 5	...
3	PHP	...

post\_tag\_ref

id	post_id	tag_id
1	1	1
2	1	2
3	3	1
4	3	3

tags

id	name
1	tech
2	front-end
3	back-end



**data types**

# data types

- INT
- BIGINT
- DECIMAL (M, D)
- DATETIME
  - DATE
  - TIME
- VARCHAR (M)

# INT & BIGINT

- INT
  - $(-2^{31})$  to  $(2^{31}-1)$
  - -2147483648 to 2147483647
- BIGINT
  - $(-2^{63})$  to  $(2^{63}-1)$
  - -9223372036854775808 to 9223372036854775807
- MEDIUMINT  $(-2^{23})$  to  $(2^{23}-1)$
- SMALLINT  $(-2^{15})$  to  $(2^{15}-1)$
- TINYINT  $(-2^7)$  to  $(2^7-1)$

# DECIMAL

- DECIMAL (5, 2)
  - -999.99 TO 999.99
- DECIMAL (10, 4)
  - -9999999.9999 TO 9999999.9999

# DATETIME

- DATETIME
  - YYYY-MM-DD HH:MM:SS
- DATE
  - YYYY-MM-DD
- TIME
  - HH:MM:SS

# VARCHAR

- VARCHAR (5)
  - "12345", "DUDE!", "Hi", "hmm"
- 0 to 65535
- VARCHAR (M)

# data types

- INT
- BIGINT
- DECIMAL (M, D)
- DATETIME
  - DATE
  - TIME
- VARCHAR (M)



**constraints**

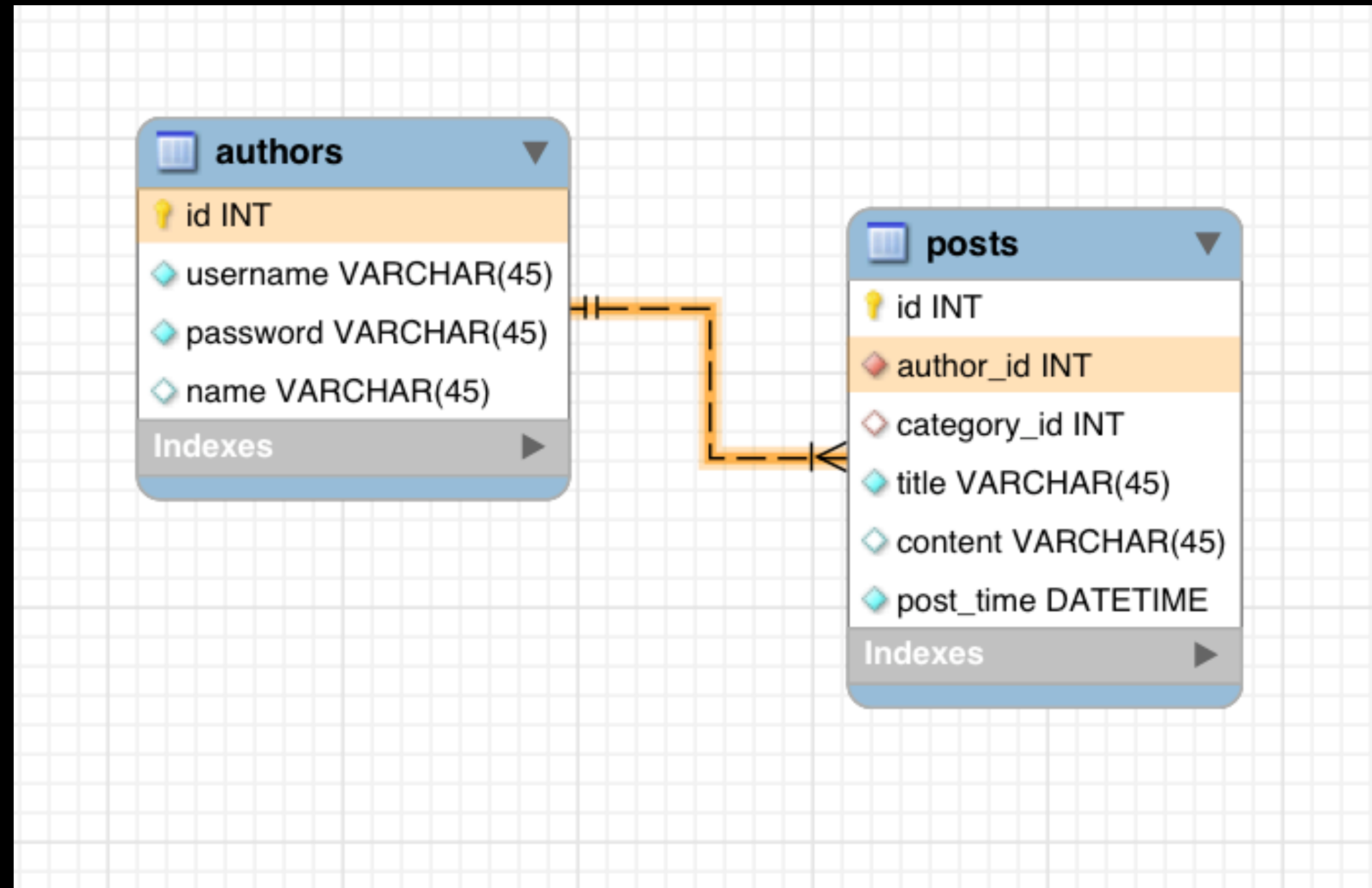




# unique constraint

[illegible]

# foreign key constraint



# foreign key constraint

Foreign key details 'fk\_posts\_users1'

Column	Referenced Column
<input type="checkbox"/> id	
<input checked="" type="checkbox"/> author_id	id
<input type="checkbox"/> category_id	
<input type="checkbox"/> title	
<input type="checkbox"/> content	
<input type="checkbox"/> post_time	

On Update: NO ACTION

On Delete: NO ACTION

Comment:

☐ Skip on SQL generation

Foreign key details 'fk\_posts\_users1'

Column	Referenced Column
<input type="checkbox"/> id	
<input checked="" type="checkbox"/> author_id	id
<input type="checkbox"/> category_id	
<input type="checkbox"/> title	
<input type="checkbox"/> content	
<input type="checkbox"/> post_time	

On Update: NO ACTION

On Delete: NO ACTION

Comment:

☐ Skip on SQL generation

RESTRICT  
CASCADE  
SET NULL  
NO ACTION

# constraints

- primary key
- not null
- unique
- foreign key





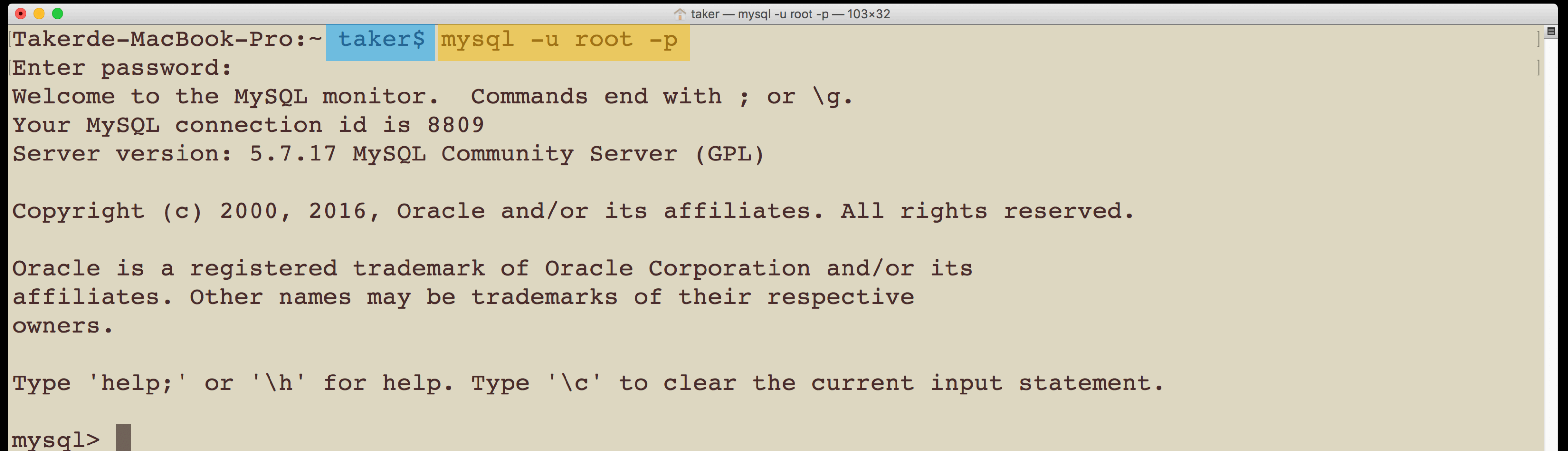
# AUTO\_INCREMENT

```
ALTER TABLE `users` AUTO_INCREMENT=100;
```



# SQL 指令

# terminal

A screenshot of a macOS terminal window. The title bar at the top shows three colored window control buttons (red, yellow, green) on the left, and a title bar with a home icon, the text "taker — mysql -u root -p — 103x32", and a close button on the right. The terminal content shows a user at a "Takerde-MacBook-Pro" prompt typing the command "mysql -u root -p". The command is highlighted in yellow. The prompt "taker\$" is highlighted in blue. The terminal output shows the MySQL login process: "Enter password:", "Welcome to the MySQL monitor. Commands end with ; or \g.", "Your MySQL connection id is 8809", "Server version: 5.7.17 MySQL Community Server (GPL)", "Copyright (c) 2000, 2016, Oracle and/or its affiliates. All rights reserved.", "Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.", and "Type 'help;' or '\h' for help. Type '\c' to clear the current input statement." The prompt "mysql>" is followed by a dark gray cursor bar.

```
Takerde-MacBook-Pro:~ taker$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8809
Server version: 5.7.17 MySQL Community Server (GPL)

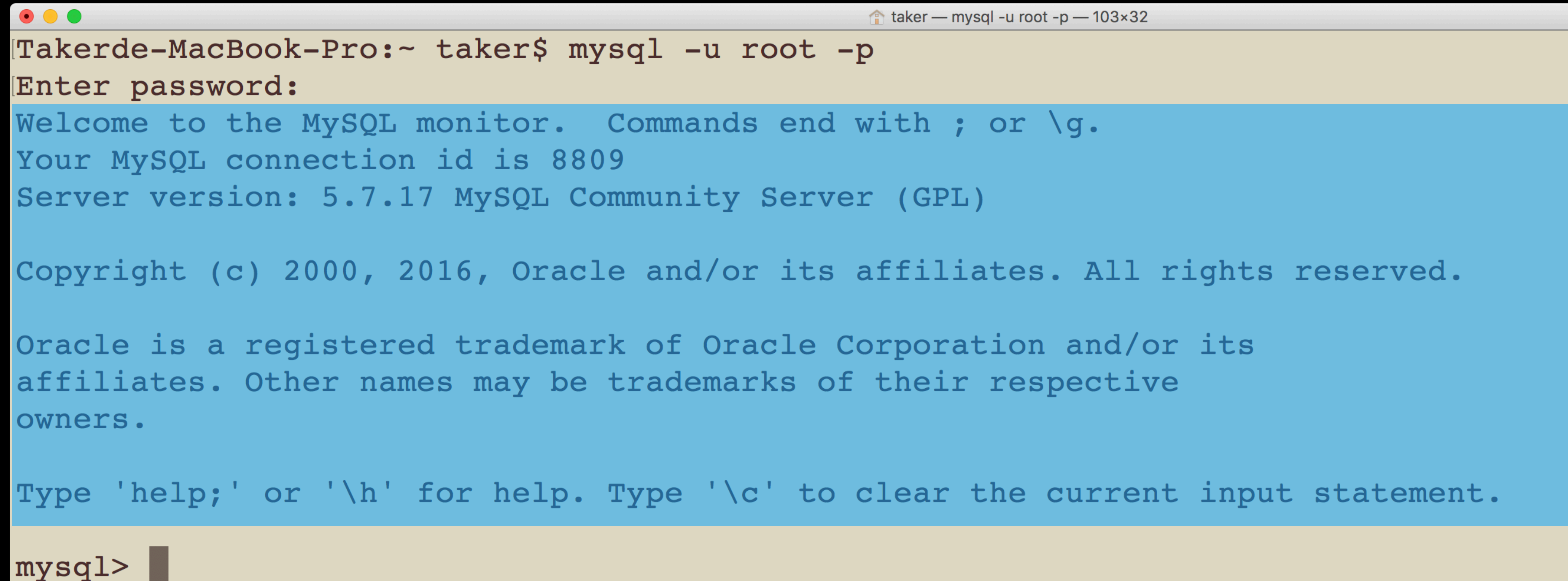
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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> █
```

# terminal

A screenshot of a macOS terminal window. The title bar shows the window name 'taker — mysql -u root -p — 103x32'. The terminal content shows the user running 'mysql -u root -p', entering a password, and receiving a MySQL welcome message. The welcome message is displayed on a light blue background. The prompt 'mysql>' is visible at the bottom.

```
Takerde-MacBook-Pro:~ taker$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8809
Server version: 5.7.17 MySQL Community Server (GPL)

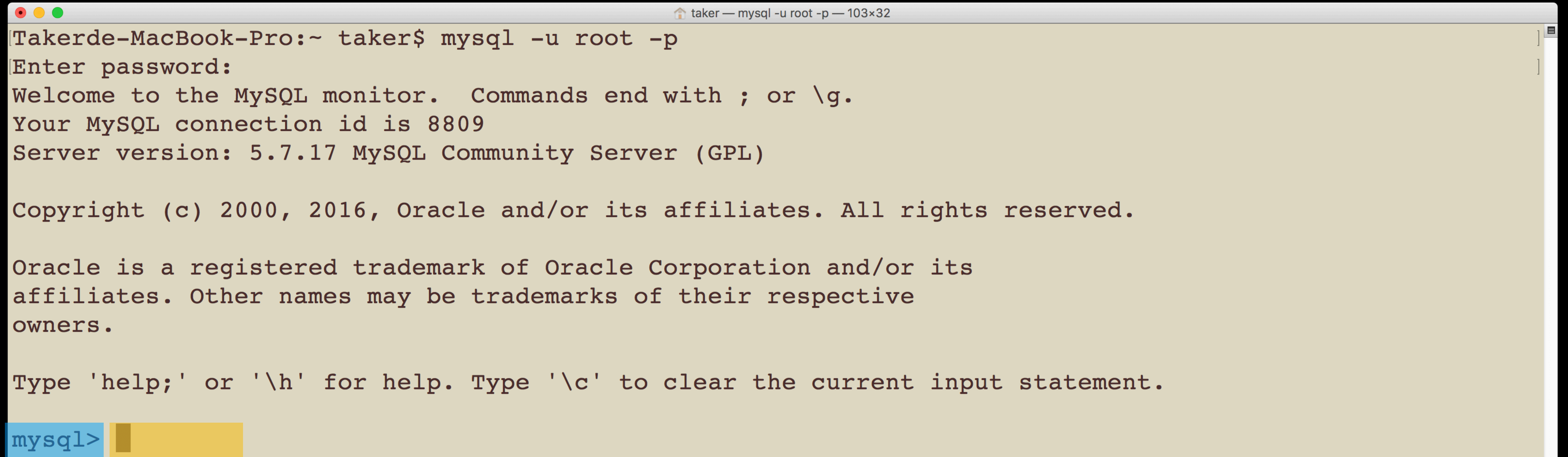
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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

# terminal

A terminal window with a light beige background and a grey title bar. The title bar contains a home icon, the text 'taker — mysql -u root -p — 103x32', and window control buttons. The terminal text is in a monospaced font. The prompt 'Takerde-MacBook-Pro:~ taker\$' is followed by the command 'mysql -u root -p'. The next line is 'Enter password:'. The MySQL welcome message follows: 'Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 8809 Server version: 5.7.17 MySQL Community Server (GPL)'. Then, the copyright notice: 'Copyright (c) 2000, 2016, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.' and the help message: 'Type \'help;\' or \'\\h\' for help. Type \'\\c\' to clear the current input statement.' The prompt 'mysql>' is highlighted in blue, and a yellow cursor bar is positioned after it.

```
Takerde-MacBook-Pro:~ taker$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8809
Server version: 5.7.17 MySQL Community Server (GPL)

Copyright (c) 2000, 2016, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\\h' for help. Type '\\c' to clear the current input statement.

mysql>
```

# 建立 database

```
CREATE DATABASE IF NOT EXISTS `my_blog`  
DEFAULT CHARACTER SET utf8  
COLLATE utf8_general_ci ;
```

# 使用 database

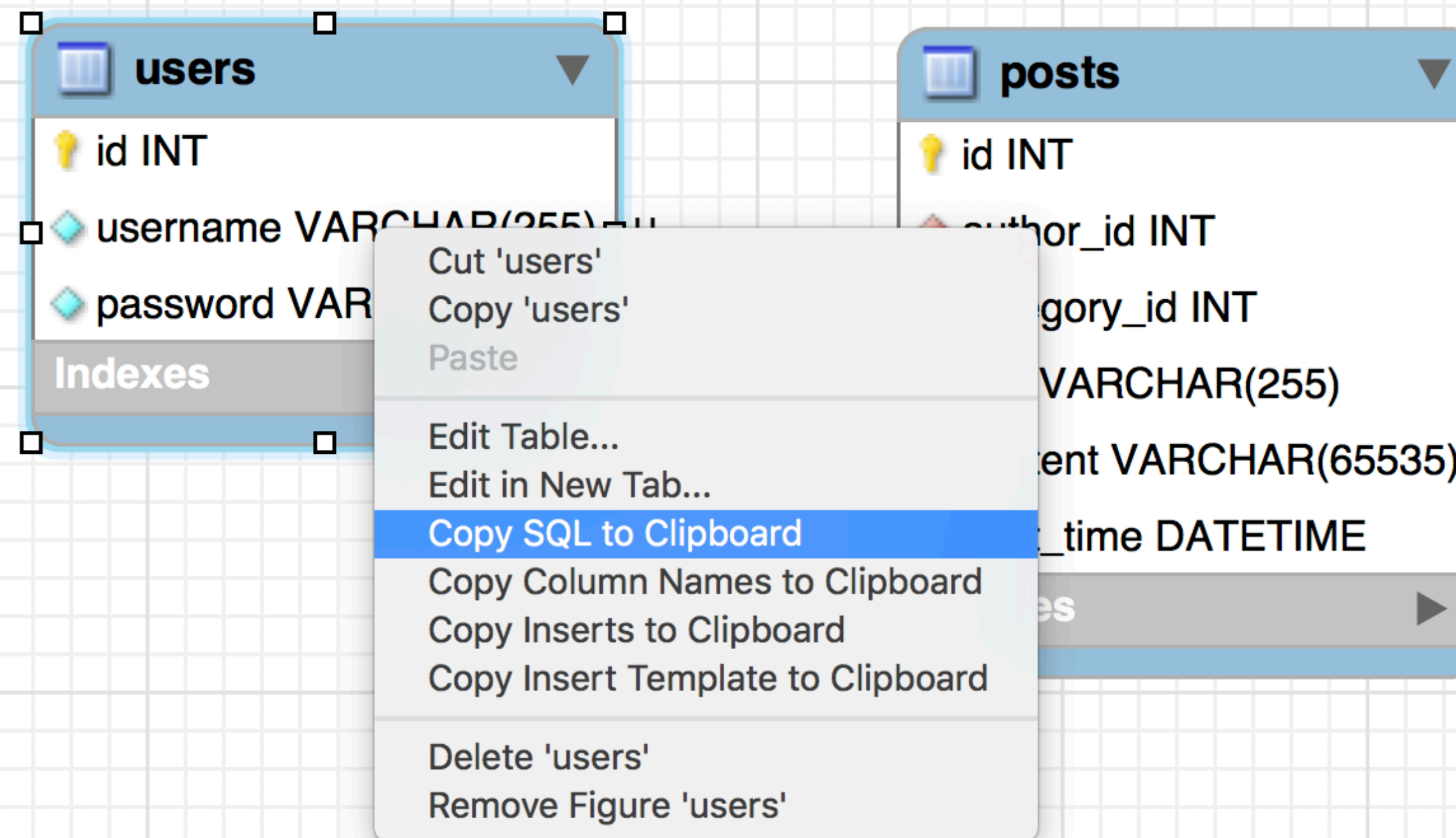
```
USE `my_blog` ;
```



# 建立 table

```
CREATE TABLE IF NOT EXISTS `my_blog`.`users` (  
  `id` INT NOT NULL AUTO_INCREMENT,  
  `username` VARCHAR(255) NOT NULL,  
  `password` VARCHAR(255) NOT NULL,  
  PRIMARY KEY (`id`))  
ENGINE = InnoDB
```

# 建立 table



# Query

- SELECT
- INSERT
- UPDATE
- DELETE

# INSERT

```
INSERT INTO `users` (`username`, `password`)  
VALUES ('taker.wu', 'password_demo');
```

# SELECT

```
SELECT * FROM `users` WHERE `username`='taker.wu';
```

```
SELECT `password`, `created_time` FROM `users`  
WHERE `username`='taker.wu';
```

# UPDATE

```
UPDATE `users`  
SET `password`='newpassword'  
WHERE `username`='taker.wu';
```

# DELETE

```
DELETE from `users`  
WHERE `username`='taker.wu';
```

# JOIN

```
SELECT * FROM posts  
INNER JOIN users on posts.author_id = users.id  
WHERE users.username='taker.wu';
```



# join

users

id	username	password
1	taker.wu	password
2	mary	password
3	jacky	password

posts

id	title	content	author_id
1	CSS 3	...	1
2	MySQL	...	1
3	PHP	...	2

posts join users

id	title	content	users.id	username	password
1	CSS 3	...	1	taker.wu	password
2	MySQL	...	1	taker.wu	password
3	PHP	...	2	mary	password

# about `backticks`

```
SELECT * FROM `users` WHERE `username`='taker.wu';
```

```
SELECT * FROM posts  
INNER JOIN users on posts.author_id = users.id  
WHERE users.username='taker.wu';
```

**WHERE**

# Logic

```
SELECT * FROM `posts`  
WHERE `post_time` > '2017-10-30 16:00:00' AND `category_id` = 2;
```

```
SELECT * FROM `posts`  
WHERE `category_id` = 8 OR `category_id` = 2;
```

# Comparison

```
SELECT * FROM `users`  
WHERE `username`='taker.wu';
```

```
SELECT * FROM `users`  
WHERE `username`<>'taker.wu';
```

```
SELECT * FROM `users`  
WHERE `username`!='taker.wu';
```

```
SELECT * FROM `posts`  
WHERE `post_time`>='2017-10-30 16:00:00';
```

# others

```
SELECT * FROM `posts`  
WHERE `category_id` IS NULL;
```

# Functions

# MAX

```
SELECT max(`order`) FROM todos;
```

```
SELECT min(`order`) FROM todos;
```



# MAX

## todos

▼ *What needs to be done?*

☐ eat apple

☐ drink milk

2 items left

All

Active

Completed

Double-click to edit a todo

Credits: Christoph Burgdorf, Eric Bidelman, Jacob Mumm and Igor Minar

Part of TodoMVC

# Sum & Avg

```
SELECT sum(price)
FROM `orders`
WHERE order_time>'2017-10-30 16:00:00';
```

```
SELECT avg(price)
FROM `orders`
WHERE order_time>'2017-10-30 16:00:00';
```

# Count

```
SELECT count(*)  
FROM posts  
WHERE category_id=2;
```

Let's try it!

# install MAMP



The screenshot shows the MAMP & MAMP PRO website. The browser's address bar displays "Secure | https://www.mamp.info/en/". The navigation bar includes links for "MAMP", "MAMP PRO", "DOWNLOADS", and "MORE", along with a "BUY MAMP PRO" button. The main banner features the MAMP elephant logo, the text "MAMP & MAMP PRO Now available!", a "Download" button, and a large number "4". Below the banner, the text "MAMP: My Apache - MySQL - PHP For macOS and Windows" is displayed. Two product cards are shown: "MAMP" (labeled "FREE") and "MAMP PRO". The "MAMP" card has a "DOWNLOAD" button highlighted by an orange arrow, and the "MAMP PRO" card has a "TRY NOW" button. The footer contains copyright information and links to social media and a legal notice.

MAMP & MAMP PRO  
Now available!

Download

MAMP: My Apache - MySQL - PHP  
For macOS and Windows

**MAMP**  
One-click-solution for setting up  
your personal webserver.

DOWNLOAD LEARN MORE


**MAMP PRO**  
Configure an unlimited number of  
virtual hosts, DynDNS, email...

TRY NOW LEARN MORE

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Legal Notice

# install MAMP



MAMP & MAMP PRO - Downloads

Secure | <https://www.mamp.info/en/downloads/>

MAMP MAMP PRO DOWNLOADS MORE  BUY MAMP PRO

 **MAMP & MAMP PRO**  
Now available! 4

Downloads

Here you find the current installation package of MAMP & MAMP PRO.

Mac OS X Windows

**MAMP & MAMP PRO 4.2.1 (Mac OS X)**  
Published: 2017-09-28  
SHA-256: 9428a3cf494d02d94ecaec302042822f54273ba9d412ecde25d1155ab07db56e

[Download](#)

This download package for Mac OS X contains the free MAMP and a free 14-day trial of MAMP PRO. MAMP can be used stand-alone without MAMP PRO.

The trial Version of MAMP PRO can be upgraded to the full version by buying a serial number.

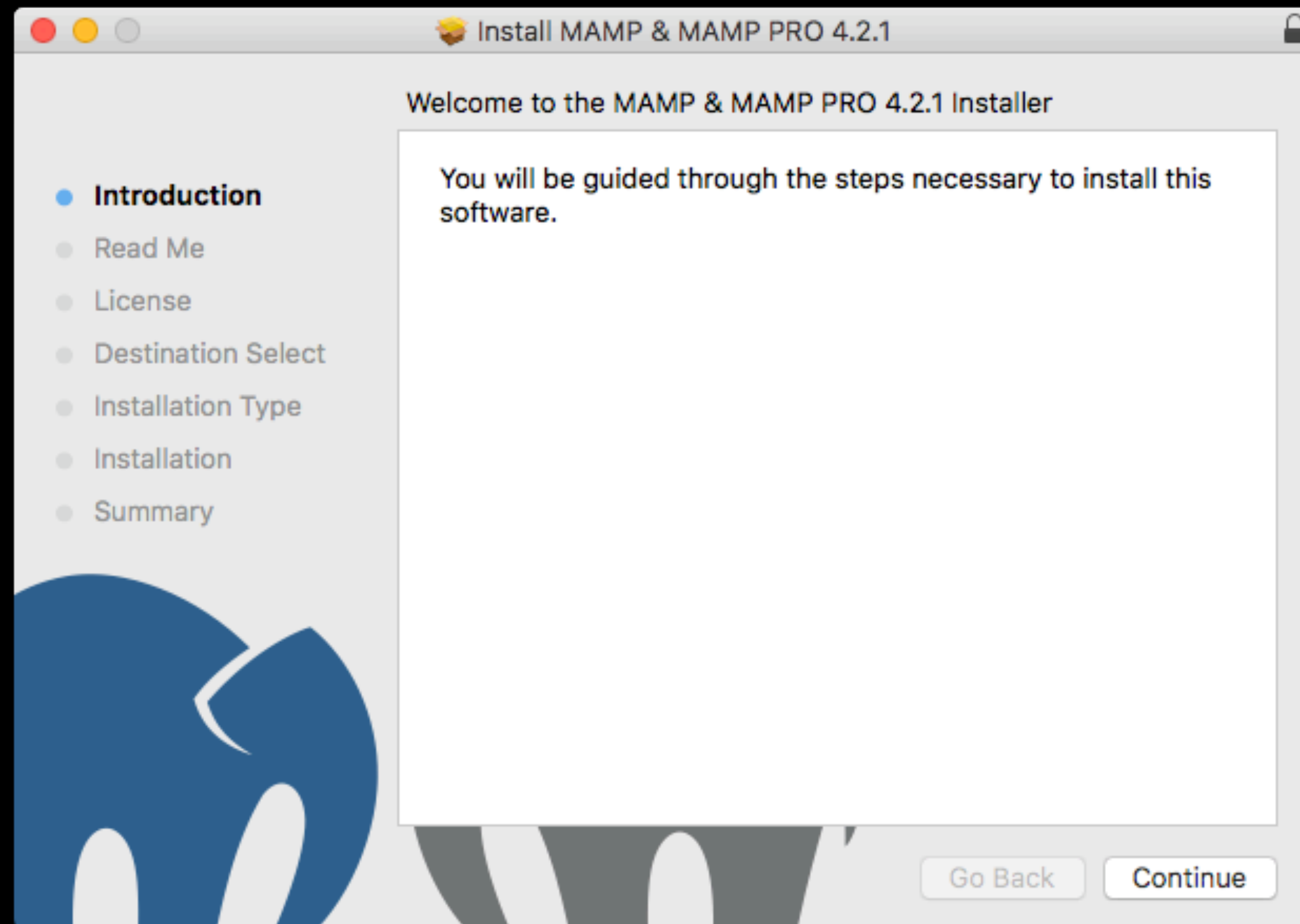
Version history can be found [here](#).

- Requirements: min. Mac OS X 10.10 & 64-Bit processor (Intel)  
macOS beta versions are not supported.
- Language versions MAMP: English, German
- Language versions MAMP PRO: English, German

**Additional PHP versions for MAMP PRO 4.2.1 (Mac OS X)**

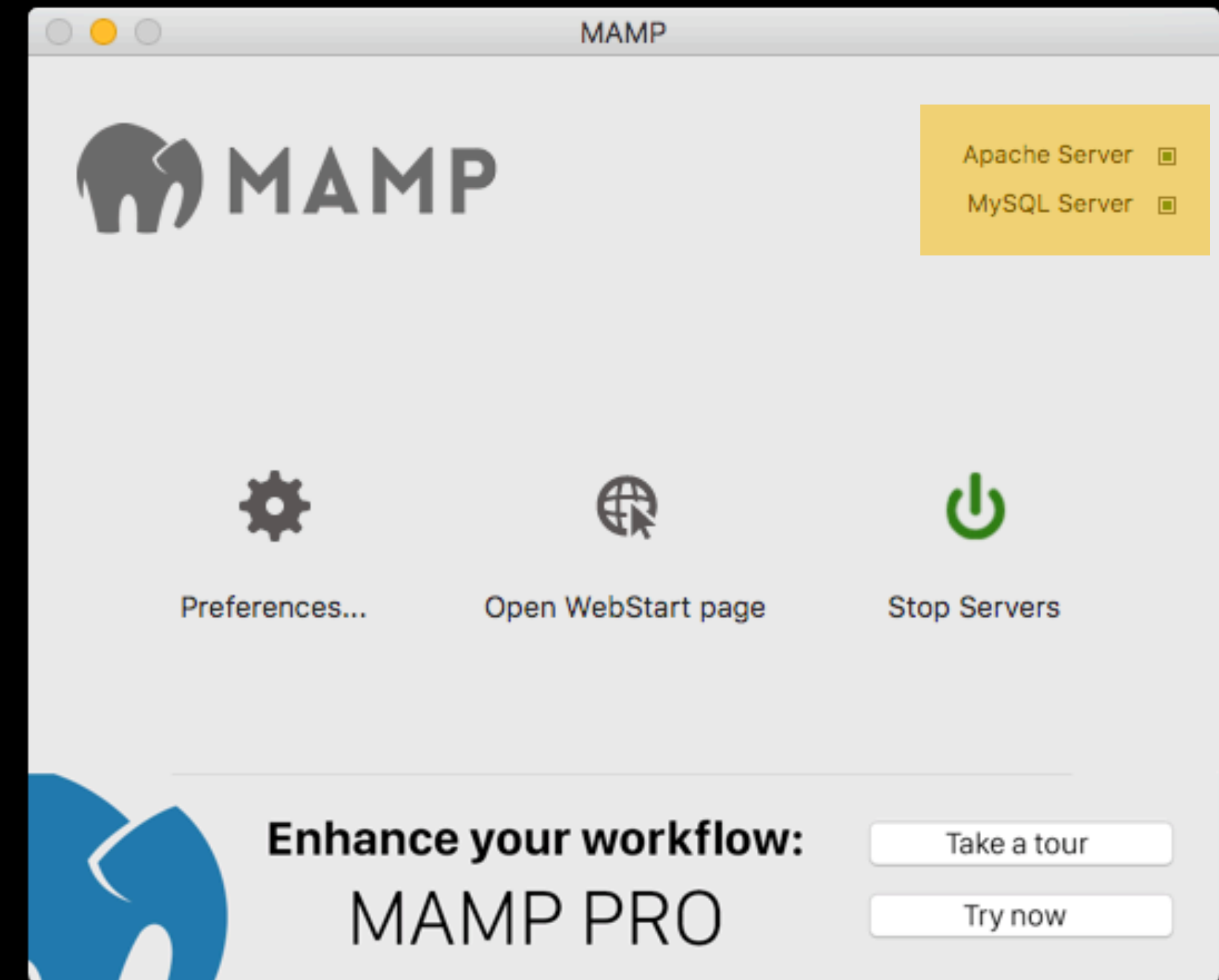
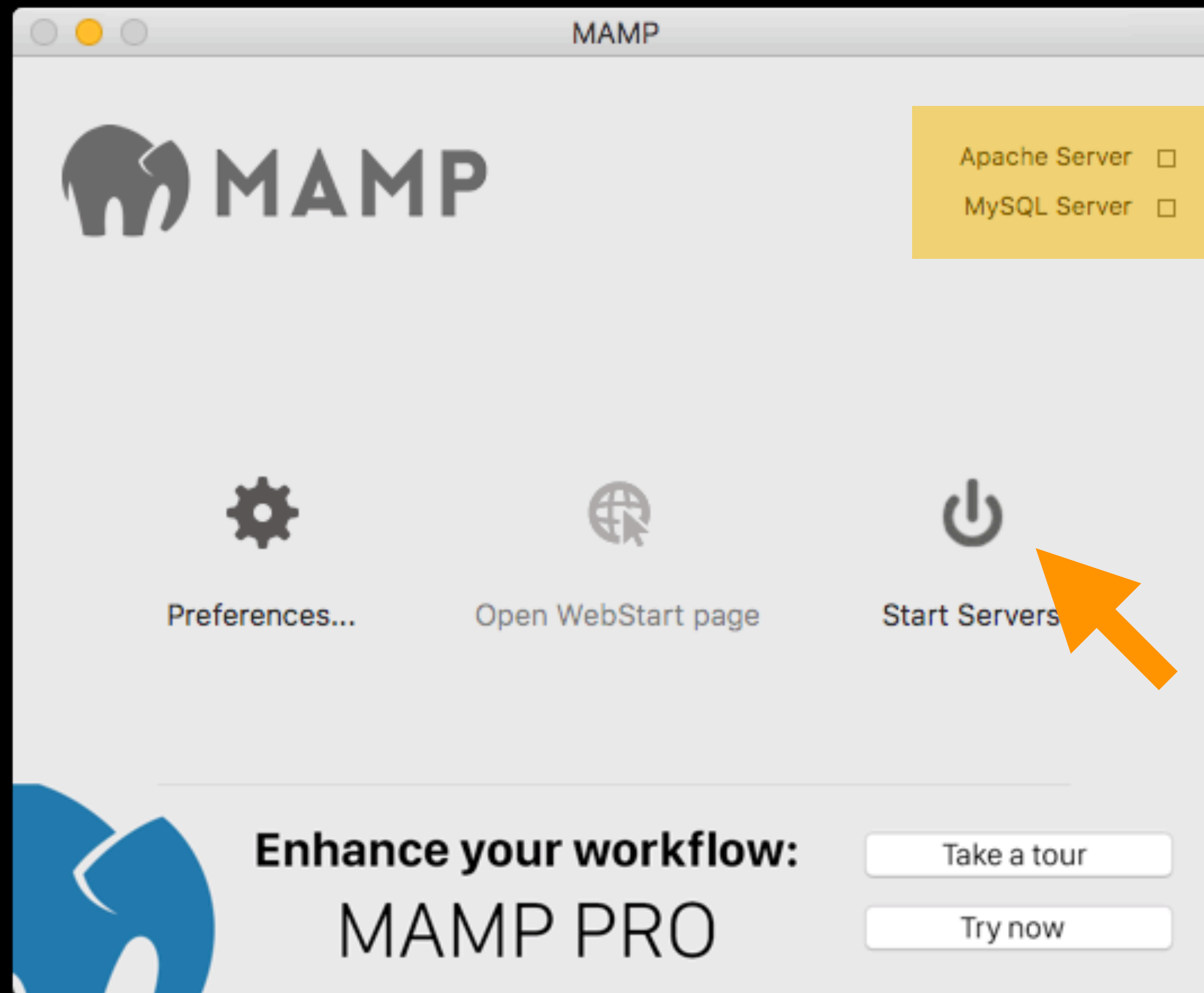
PHP 5.1.6	<a href="#">Download</a>
PHP 5.2.17	<a href="#">Download</a>
PHP 5.3.5	<a href="#">Download</a>
PHP 5.3.6	<a href="#">Download</a>
PHP 5.3.14	<a href="#">Download</a>
PHP 5.3.29	<a href="#">Download</a>
PHP 5.4.1	<a href="#">Download</a>

# install MAMP





# install MAMP





# install MAMP

MAMP & MAMP PRO - Downlo... x

MAMP

x

TAKER

localhost:8888/MAMP/?language=English

Start

My Website


phpInfo

Tools ▾

FAQ


MAMP Website

Buy MAMP PRO



## Welcome!

MAMP has been installed successfully.



### PHP

[phpinfo](#) shows the current configuration of PHP.

### MySQL

MySQL can be administered with [phpMyAdmin](#).

To connect to the MySQL server from your own scripts use the following connection parameters:

Host	localhost
Port	3306
User	root
Password	root
Socket	/Applications/MAMP/tmp/mysql/mysql.sock

### Examples:

PHP 5.5.x

PHP 5.6.x

Python

Perl

### MAMP Version

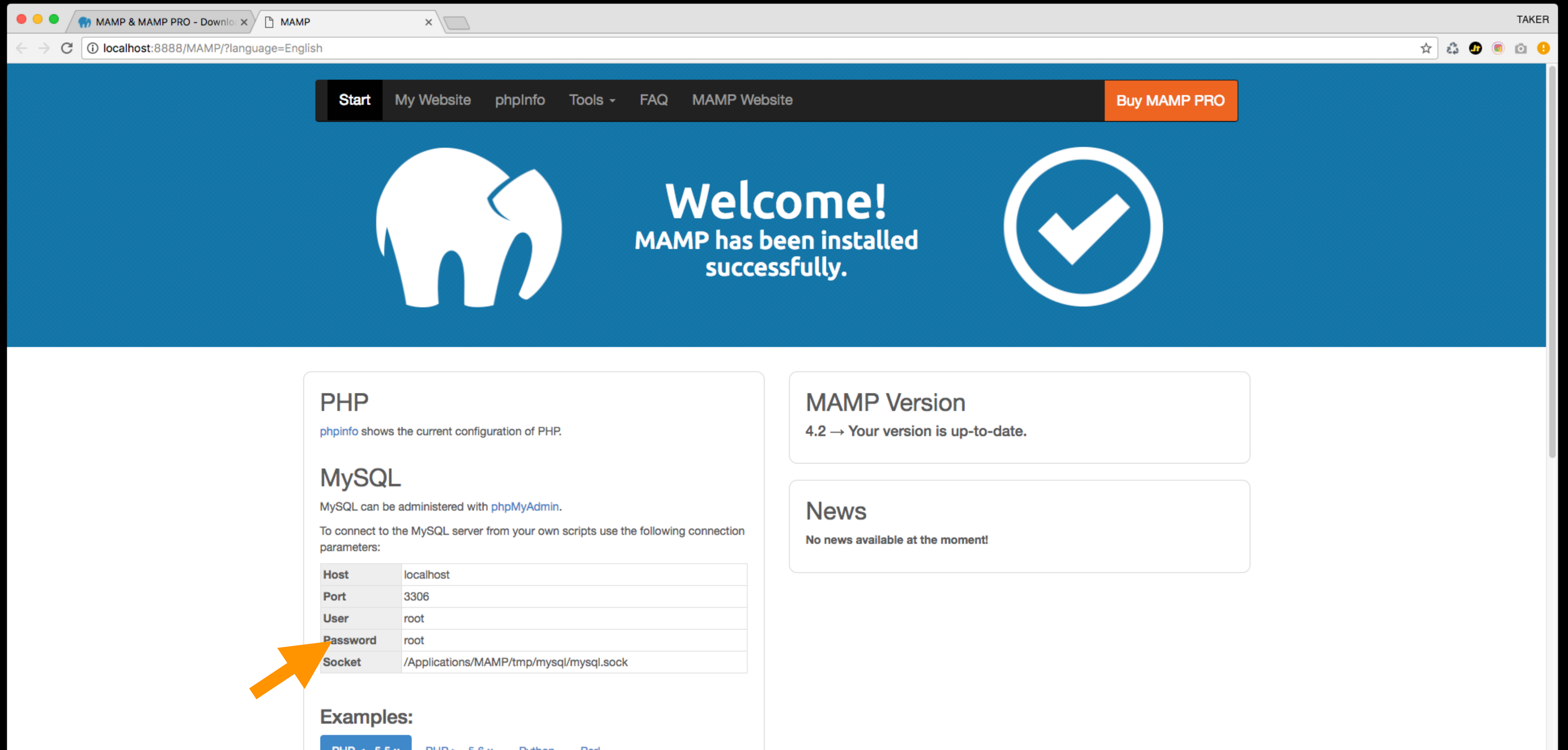
4.2 → Your version is up-to-date.

### News

No news available at the moment!

使用 terminal 連接 MySQL

# 使用 terminal 連接 MySQL



The screenshot shows the MAMP & MAMP PRO website interface. The top navigation bar includes links for Start, My Website, phpInfo, Tools, FAQ, and MAMP Website, along with a Buy MAMP PRO button. The main banner features the MAMP elephant logo, a "Welcome! MAMP has been installed successfully." message, and a checkmark icon. Below the banner, the PHP section indicates that phpinfo shows the current configuration. The MySQL section provides instructions on how to connect to the MySQL server from scripts, including a table of connection parameters. An orange arrow points to the Password field in this table. The MAMP Version section shows that the version is up-to-date (4.2). The News section states that no news is available at the moment.

**Start** My Website phpInfo Tools FAQ MAMP Website Buy MAMP PRO

**Welcome!**  
MAMP has been installed successfully.

**PHP**  
phpinfo shows the current configuration of PHP.

**MySQL**  
MySQL can be administered with [phpMyAdmin](#).  
To connect to the MySQL server from your own scripts use the following connection parameters:

Host	localhost
Port	3306
User	root
Password	root
Socket	/Applications/MAMP/tmp/mysql/mysql.sock

**Examples:**

**MAMP Version**  
4.2 → Your version is up-to-date.

**News**  
No news available at the moment!

# 使用 terminal 連接 MySQL

## PHP

[phpinfo](#) shows the current configuration of PHP.

## MySQL

MySQL can be administered with [phpMyAdmin](#).

To connect to the MySQL server from your own scripts use the following connection parameters:

Host	localhost
Port	3306
User	root
Password	root
Socket	/Applications/MAMP/tmp/mysql/mysql.sock

## Examples:

PHP <= 5.5.x

PHP >= 5.6.x

Python

Perl

Connect via network:

```
$user = 'root';  
$password = 'root';  
$db = 'inventory';
```

## MAMP Version


4.2 → Your version is up-to-date.

## News

No news available at the moment!



# 使用 terminal 連接 MySQL



```
taker — mysql -uroot -px — 83x21
Takerde-MacBook-Pro:~ taker$ /Applications/MAMP/Library/bin/mysql -uroot -proot
Warning: Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 5.6.35 MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\
mysql>
```

Mac  
/Applications/MAMP/Library/bin/mysql -uroot -proot

Windows (不是很確定，請找一下)  
C:\MAMP\db\mysql\mysql -uroot -proot

Windows 參考文件  
<https://documentation-3.mamp.info/en/documentation/mamp-windows/>

# 使用 terminal 連接 MySQL



```
taker — mysql -uroot -px — 57x14
[mysql> create database demo;
Query OK, 1 row affected (0.00 sec)

[mysql> use demo;
Database changed
mysql> █
```

# 使用 terminal 連接 MySQL

```
mysql> create table posts
-> (
-> id int auto_increment,
-> title varchar(255),
-> content varchar(21500),
-> post_time datetime,
-> primary key(id)
-> )
-> engine InnoDB;
Query OK, 0 rows affected (0.02 sec)
```

# CRUD

```
taker — mysql -uroot -px — 65x16
mysql> insert into posts (title, content, post_time)
[    -> values ('hello world', '...', '2017-10-30 16:00:00');    ]
Query OK, 1 row affected (0.00 sec)

mysql> █
```



# CRUD

```
taker — mysql -uroot -px — 65x16
mysql> select * from posts where title="hello world";
+----+-----+-----+-----+
| id | title       | content | post_time       |
+----+-----+-----+-----+
|  1 | hello world | ...     | 2017-10-30 16:00:00 |
+----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> █
```

# CRUD

```
taker — mysql -uroot -px — 60x26
mysql> select * from posts where title='hello world';
+----+-----+-----+-----+
| id | title       | content | post_time          |
+----+-----+-----+-----+
|  1 | hello world | ...     | 2017-10-30 16:00:00 |
+----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> update posts set post_time='2017-10-28 12:00:00'
-> where title='hello world';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from posts where title='hello world';
+----+-----+-----+-----+
| id | title       | content | post_time          |
+----+-----+-----+-----+
|  1 | hello world | ...     | 2017-10-28 12:00:00 |
+----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> █
```

# CRUD

A terminal window with a light gray title bar containing three colored window control buttons (red, yellow, green) on the left and a title text 'taker — mysql -uroot -px — 60x13' on the right. The terminal area has a light yellow background. It shows three lines of MySQL interaction: a delete command, its confirmation, a select command, its result, and a prompt for a new command.

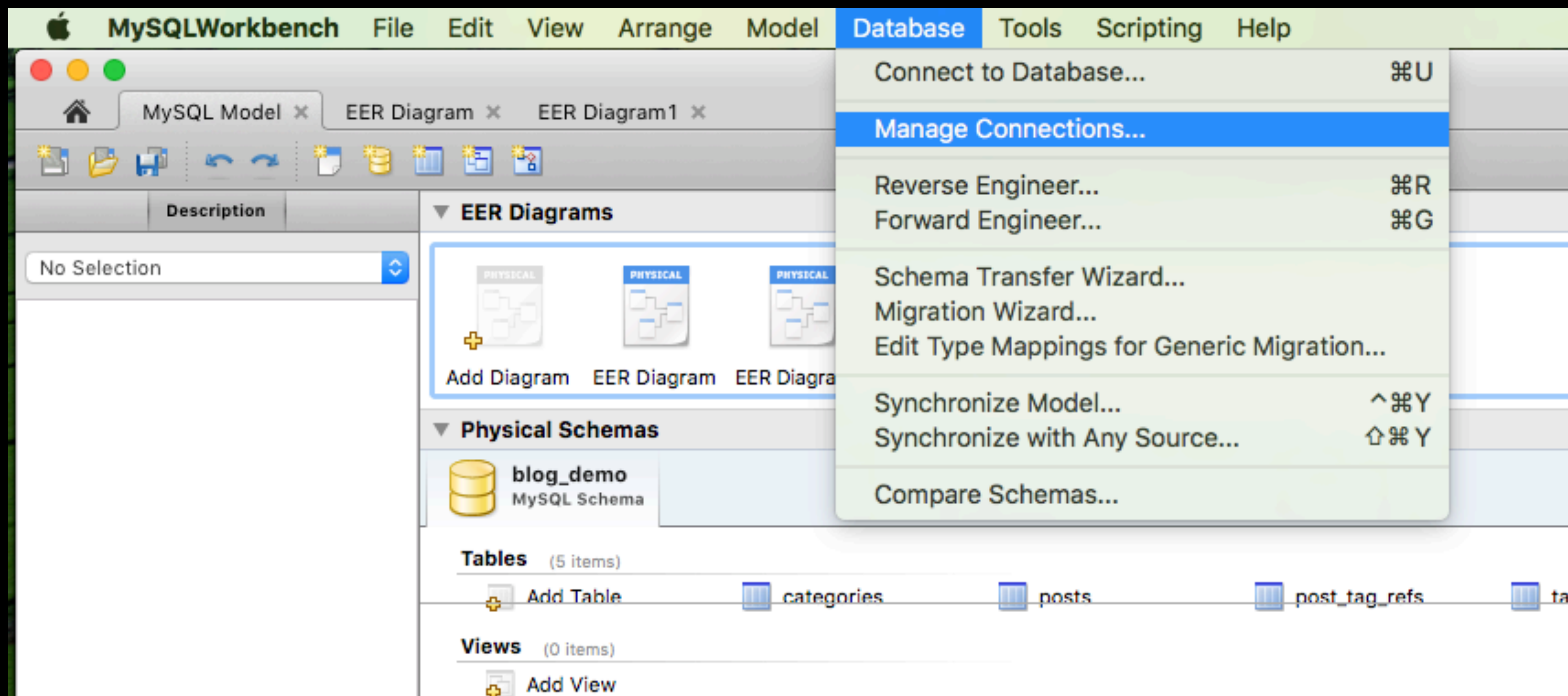
```
taker — mysql -uroot -px — 60x13
mysql> delete from posts where title='hello world';
Query OK, 1 row affected (0.00 sec)

mysql> select * from posts where title='hello world';
Empty set (0.00 sec)

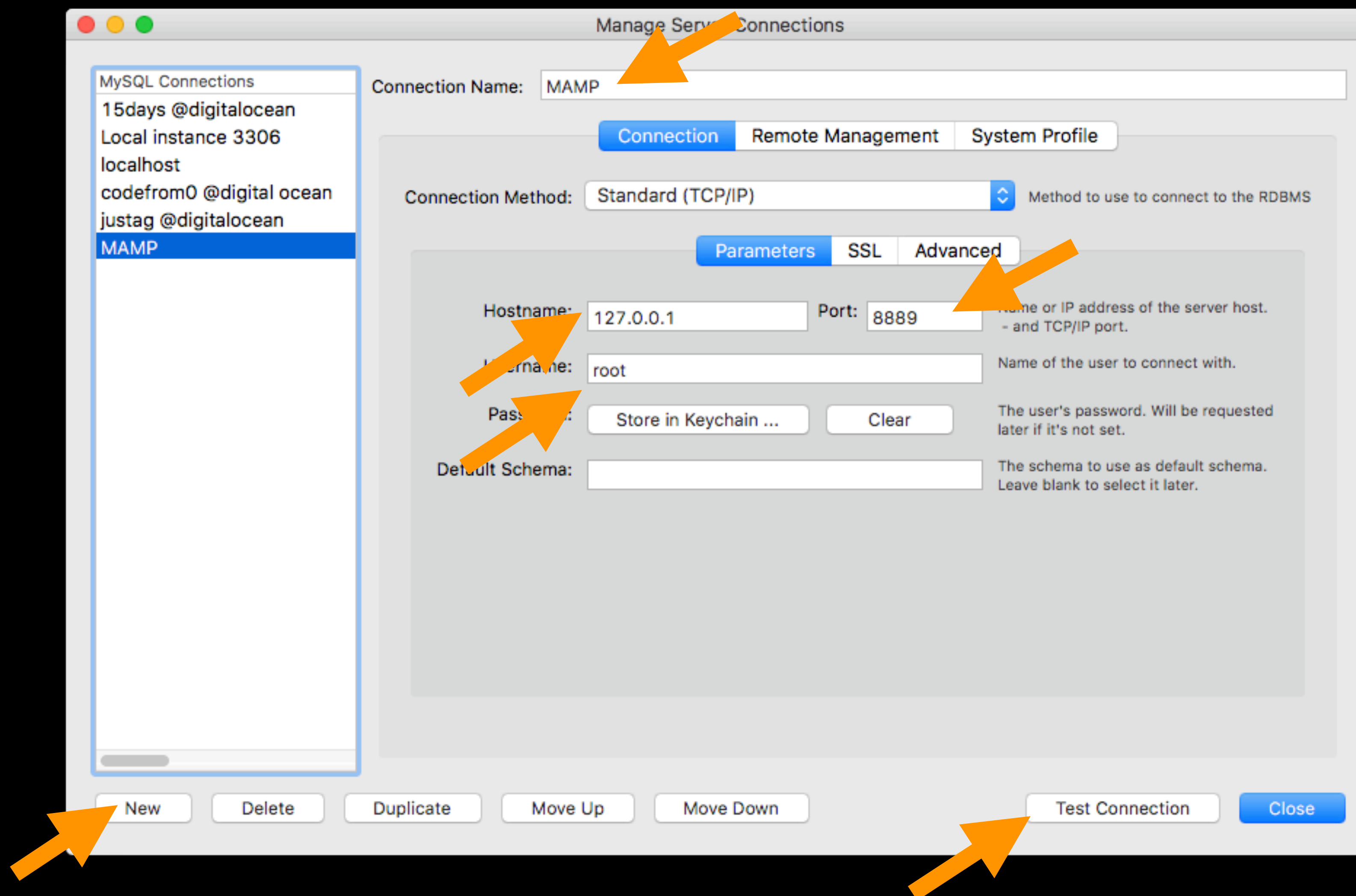
mysql> █
```

# MySQL Workbench

# MySQL Workbench

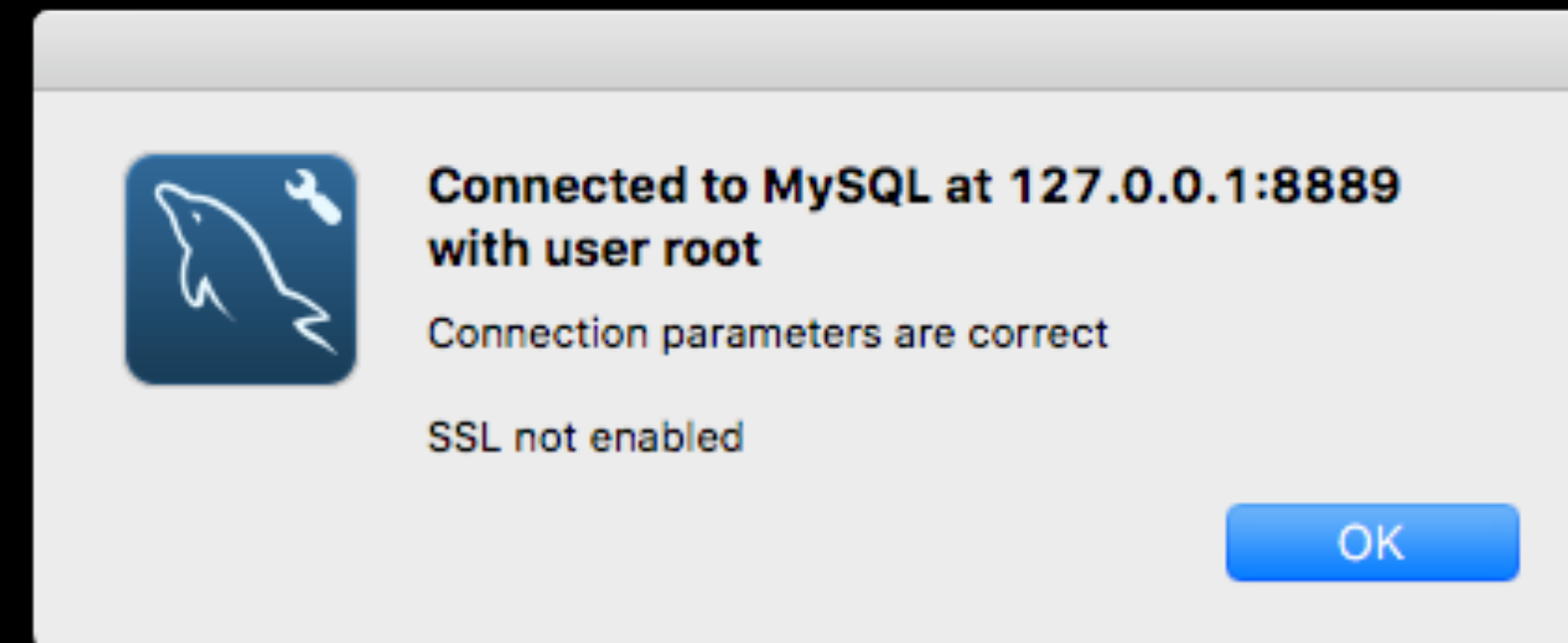


# MySQL Workbench





# MySQL Workbench



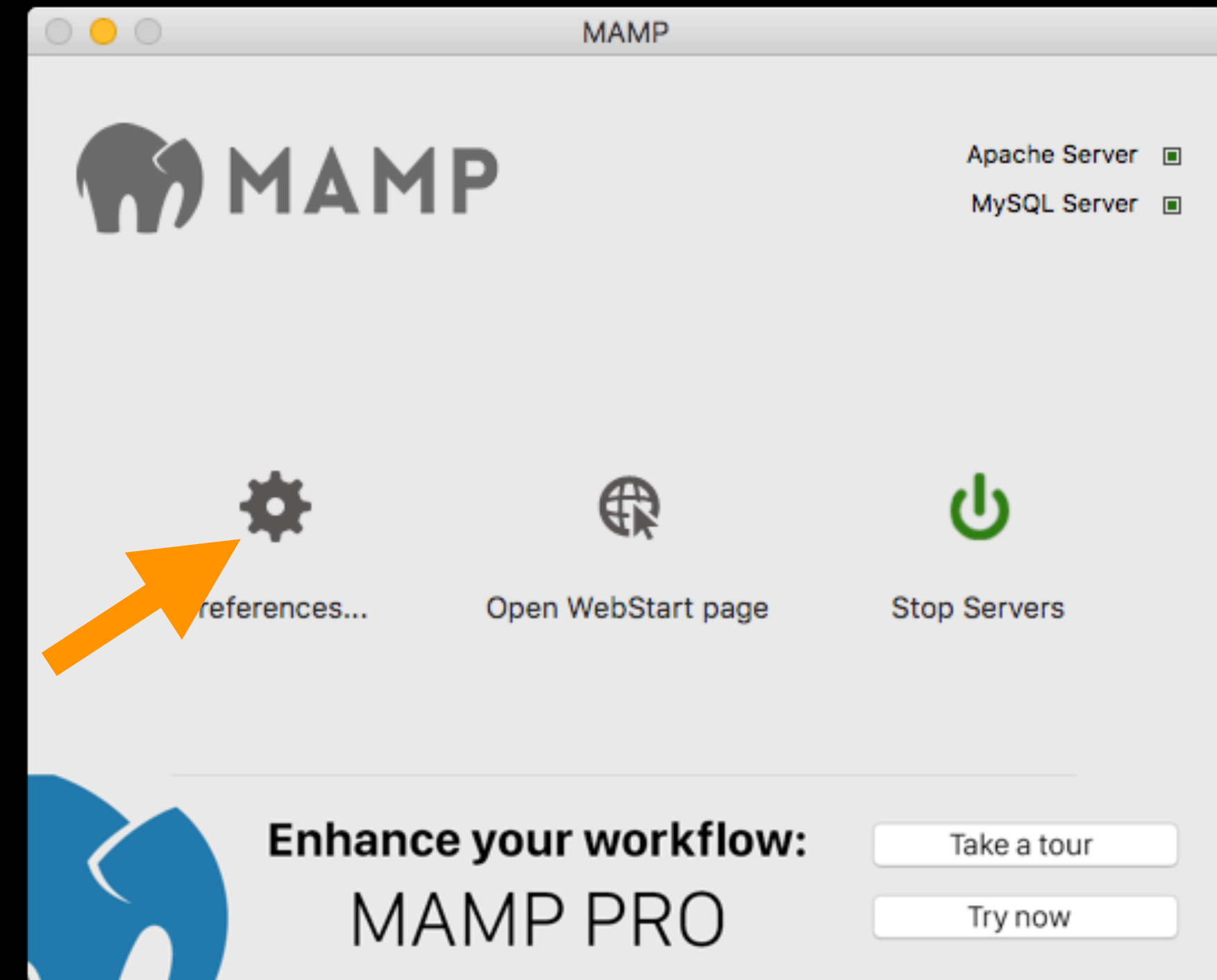
# MySQL Workbench

## MySQL

MySQL can be administered with [phpMyAdmin](#).

To connect to the MySQL server from your own scripts use the following connection parameters:

Host	localhost
Port	3306
User	root
Password	root
Socket	/Applications/MAMP/tmp/mysql/mysql.sock





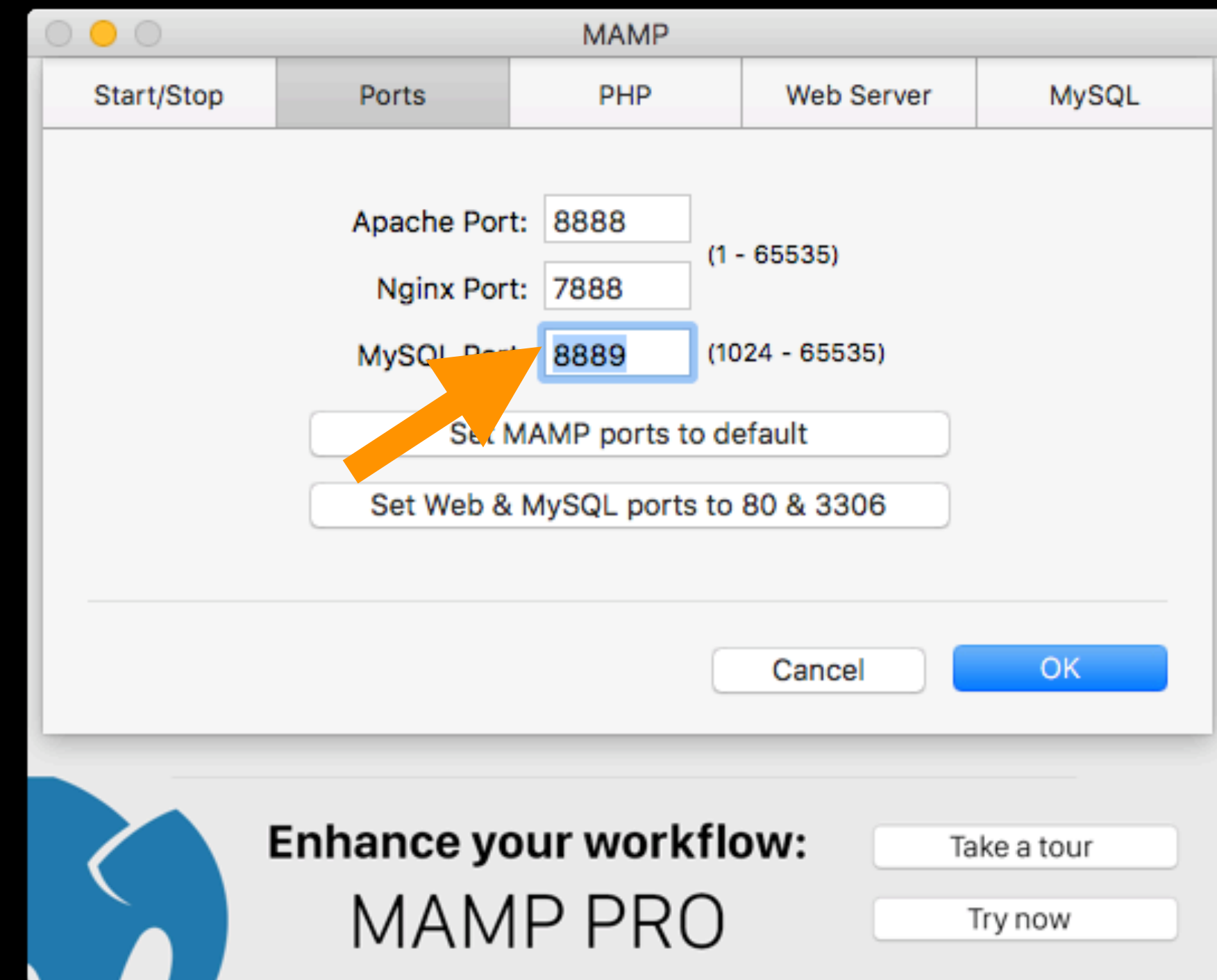
# MySQL Workbench

## MySQL

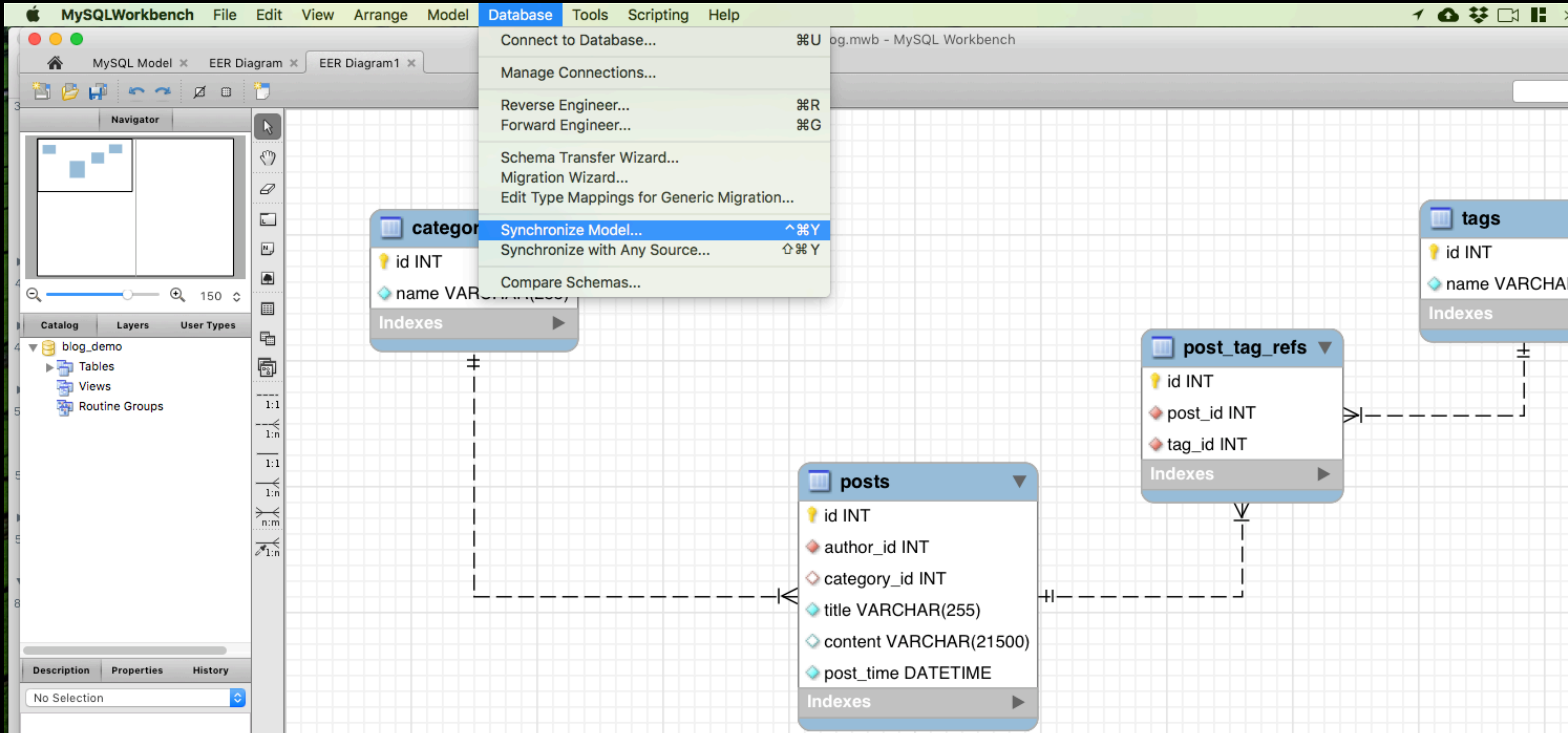
MySQL can be administered with [phpMyAdmin](#).

To connect to the MySQL server from your own scripts use the following connection parameters:

Host	localhost
Port	3306
User	root
Password	root
Socket	/Applications/MAMP/tmp/mysql/mysql.sock



# MySQL Workbench



# MySQL Workbench

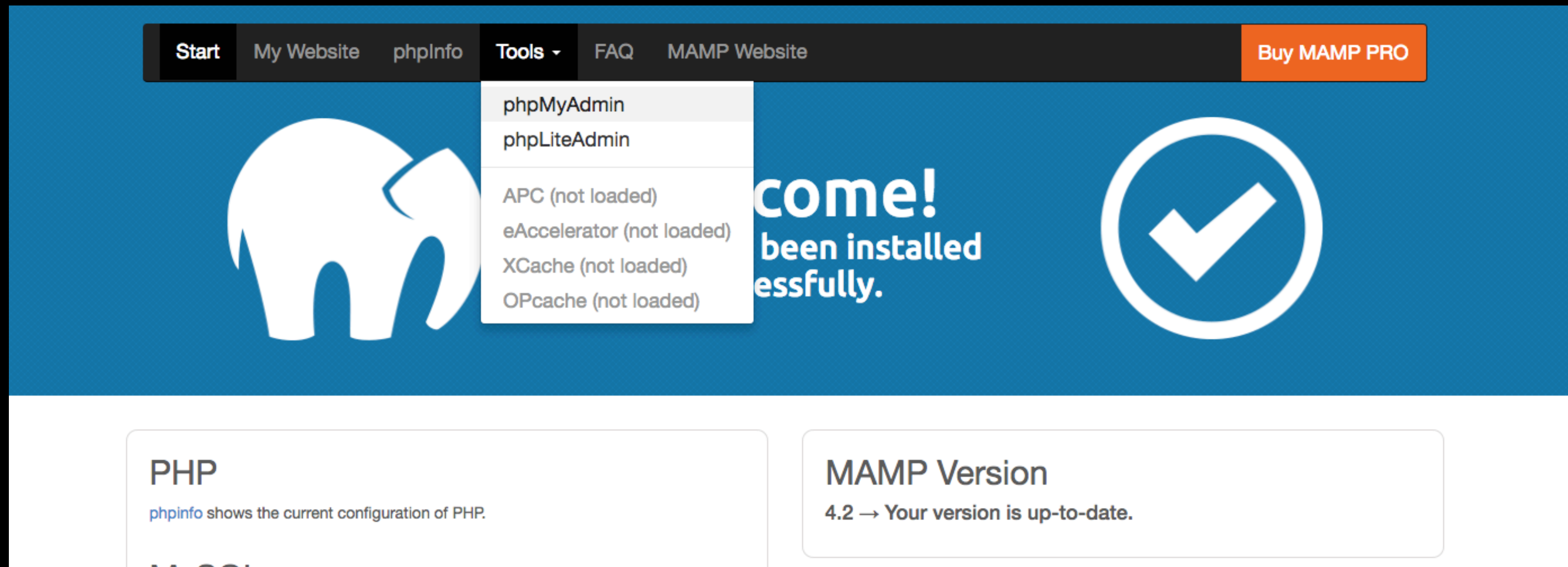
```
taker — mysql -uroot -px — 91x27
mysql> use demo;
Database changed
mysql> show tables;
+-----+
| Tables_in_demo |
+-----+
| posts          |
+-----+
1 row in set (0.00 sec)

mysql> describe posts;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id         | int(11)       | NO   | PRI | NULL    | auto_increment |
| title      | varchar(255)  | YES  |     | NULL    |                |
| content    | varchar(21500)| YES  |     | NULL    |                |
| post_time  | datetime      | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> █
```

**phpMyAdmin**

# phpMyAdmin





# phpMyAdmin

The screenshot displays the phpMyAdmin web interface in a browser window. The browser's address bar shows the URL `localhost:8888/phpMyAdmin/?lang=en`. The interface includes a top navigation bar with tabs for **Databases**, **SQL**, **Status**, **User accounts**, **Export**, **Import**, **Settings**, **Replication**, **Variables**, **Charsets**, and **More**. The left sidebar features the phpMyAdmin logo, a home icon, and buttons for **Exit**, **Help**, **SQL**, and **Refresh**. Below these are **Recent** and **Favorites** sections. The **Recent** section lists **New**, **demo**, **information\_schema**, **mysql**, and **performance\_schema**. The main content area is titled **Server: localhost** and contains several panels: **General settings** (showing **Server connection collation** as `utf8mb4_unicode_ci`), **Appearance settings** (showing **Language** as `English`, **Theme** as `Original`, and **Font size** as `82%`), and **More settings**. On the right side, there are two panels: **Database server** and **Web server**. The **Database server** panel lists: 

- Server: Localhost via UNIX socket
- Server type: MySQL
- Server version: 5.6.35 - MySQL Community Server (GPL)
- Protocol version: 10
- User: root@localhost
- Server charset: UTF-8 Unicode (utf8)

The **Web server** panel lists: 

- Apache/2.2.32 (Unix) mod\_wsgi/3.5 Python/2.7.13 PHP/7.1.8 mod\_ssl/2.2.32 OpenSSL/1.0.2j DAV/2 mod\_fastcgi/2.4.6 mod\_perl/2.0.9 Perl/v5.24.0
- Database client version: libmysql - mysqlnd 5.0.12-dev - 20150407 - \$Id: b396954eeb2d1d9ed7902b8bae237b287f21ad9e \$
- PHP extension: mysqli curl mbstring
- PHP version: 7.1.8

At the bottom right, the **phpMyAdmin** panel shows: 

- Version information: 4.7.3
- [Documentation](#)
- [Official Homepage](#)
- [Contribute](#)
- [Get support](#)
- [List of changes](#)

A small sailboat icon is visible in the bottom right corner of the interface.

# phpMyAdmin

The screenshot displays the phpMyAdmin web interface in a browser window. The address bar shows the URL: `localhost:8888/phpMyAdmin/tbl_sql.php?db=demo&table=posts`. The interface includes a left sidebar with a tree view of databases and tables, including 'demo', 'information\_schema', 'mysql', and 'performance\_schema'. The 'posts' table is selected under the 'demo' database. The main area shows the 'Run SQL query/queries on table demo.posts:' section. A text input field contains the SQL query: `1 SELECT * FROM WHERE 1`. Below the input field are buttons for 'SELECT \*', 'SELECT', 'INSERT', 'UPDATE', 'DELETE', 'Clear', 'Format', and 'Get auto-saved query'. There is also a checkbox for 'Bind parameters'. To the right of the query input is a 'Columns' list containing 'id', 'title', 'content', and 'post\_time'. At the bottom of the interface, there are checkboxes for 'Show this query here again', 'Retain query box', 'Rollback when finished', and 'Enable foreign key checks', along with a 'Go' button.

Server: localhost » Database: demo » Table: posts

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Run SQL query/queries on table demo.posts: ?

1 SELECT \* FROM WHERE 1

Columns

- id
- title
- content
- post\_time

SELECT \* SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query

☐ Bind parameters ?

[ Delimiter ; ] ☒ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

# phpMyAdmin

Screenshot of the phpMyAdmin interface showing the 'posts' table structure and the 'Insert' form.

**Server: localhost » Database: demo » Table: posts**

**Navigation:** Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Triggers

**Table Structure:**

Column	Type	Function	Null	Value
id	int(11)			
title	varchar(255)		<input checked="" type="checkbox"/>	
content	varchar(21500)		<input checked="" type="checkbox"/>	
post_time	datetime		<input checked="" type="checkbox"/>	

**Insert Form:**

☒ Ignore

Column	Type	Function	Null	Value
id	int(11)			
title	varchar(255)		<input checked="" type="checkbox"/>	
content	varchar(21500)		<input checked="" type="checkbox"/>	
post_time	datetime		<input checked="" type="checkbox"/>	

**Footer:**

Insert as new row and then Go back to previous page

Go Preview SQL Reset



# phpMyAdmin

Browser tabs: MAMP & MAMP PRO - Downlo... MAMP localhost:8888 / localhost | ph...

Address bar: localhost:8888/phpMyAdmin/server\_privileges.php?db=&viewing\_mode=server

phpMyAdmin logo

Recent Favorites

- New
- demo
  - New
  - posts
- information\_schema
- mysql
- performance\_schema

Server: localhost

Databases SQL Status User accounts Export Import Settings Replication Variables Charsets More

### User accounts overview

	User name	Host name	Password	Global privileges ?	Grant	Action
<input type="checkbox"/>	root	127.0.0.1	Yes	ALL PRIVILEGES	Yes	<a href="#">Edit privileges</a> <a href="#">Export</a>
<input type="checkbox"/>	root	::1	Yes	ALL PRIVILEGES	Yes	<a href="#">Edit privileges</a> <a href="#">Export</a>
<input type="checkbox"/>	root	devbook.local	Yes	ALL PRIVILEGES	Yes	<a href="#">Edit privileges</a> <a href="#">Export</a>
<input type="checkbox"/>	root	localhost	Yes	ALL PRIVILEGES	Yes	<a href="#">Edit privileges</a> <a href="#">Export</a>

☐ Check all With selected: [Export](#)

New

[Add user account](#)

[Remove selected user accounts](#)

( Revoke all active privileges from the users and delete them afterwards. )

☐ Drop the databases that have the same names as the users.

Go

**Note:** phpMyAdmin gets the users' privileges directly from MySQL's privilege tables. The content of these tables may differ from the privileges the server uses, if they have been changed manually. In this case, you should [reload the privileges](#) before you continue.

# phpMyAdmin

security issue

# MySQL